11.10

Five-Year Review Report

Third Five-Year Review Report

For

Colbert Landfill

Spokane County, Washington

August 2004

Prepared by:

Spokane County
Washington State Department of Ecology
Environmental Protection Agency, Region 10

Approved by:

Daniel D. Opalski, Director
Office of Environmental Cleanup

Date:

9/30/04

Ecology Acceptance

Third Five-Year Review

Colbert Landfill

This signature sheet documents Washington State Department of Ecology's acceptance of the third Five-Year Review for the Colbert Landfill.

Michael Kuntz

10-15-04

Michael Kuntz P.G., P.HG
Senior Hydrogeologist
Toxics Cleanup Program, HQ
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Third Five-Year Review
Colbert Landfill

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Executive Summary

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Monitoring data from the Colbert Landfill area indicates a trend of declining contaminant concentrations. Treated groundwater from the facility has met effluent criteria and limits since facility startup. The residential monitoring program is ongoing for continued protection. Because the remedial actions and criteria at the Colbert Landfill site are protective, the site is protective of human health and environment.

FIVE YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION

Site name *(from WasteLAN)*: Colbert Landfill

EPA ID *(from WasteLAN)*: WAD980514541

Region: 10 | **State:** WA | **City/County:** Colbert/Spokane

SITE STATUS

NPL status: Final Deleted Other (specify): Final

Remediation status (choose all that apply): Construction Complete / Operating

Multiple Ous? NO | **Construction completion date:** 09/09/97

Has site been put into reuse? NO

REVIEW STATUS

Lead agency: EPA State Tribe Other Federal Agency _State_____

Author name: Debra Geiger/Mike Kuntz/Neil Thompson

Author title: Project Manager | **Author affiliation:** County/State/EPA

Review period:** 06/01/04 to 09/24/04

Date(s) of site inspection: 09/24/04

Type of review: Post-SARA

Review number: 1 (first) 2 (second) 3 (third) Other (specify): __Third Five-Year Review_____

Triggering action: Previous Five-Year Review

Triggering action date *(from WasteLAN)*: _09/20/99__

Due date *(five years after triggering action date)*: 09/20/04

Five-Year Review Summary Form, continued.

Issues:

The new EPA constituent of concern, 1,4-dioxan, needs to be added to the data gathering for this site. 1,4-dioxan is associated with VOC contaminants that are found at this Site.

Recommendations and Follow-up Actions:

Recommend that EPA, Ecology, and the County together determine the best approach to gather the new 1,4-dioxan data. No other issues or actions were identified during this review.

Protectiveness Statement:

Because the remedial actions at this site are protective, the site is protective of human health and the environment.

Other Comments:

None

Third Five-Year Review Report
Colbert Landfill

I. Introduction

The Washington State Department of Ecology (Ecology) and the Environmental Protection Agency, Region 10 (EPA), have conducted a Five-Year review of the remedial actions implemented at the Colbert Landfill (Site) located in Spokane County, Washington. This review was conducted from July through September 2004. This report documents the results of this sitewide review.

The purpose of the Five-Year Review is to determine whether the remedy at the Site has remained protective of human health and the environment. The methods, findings and conclusions of the review are documented in this report. In addition, any deficiencies and recommendations that were identified are described and have been reported to the responsible party.

Statutory Review

This is a Statutory Five-Year review. Statutory reviews are required for sites where hazardous substances, pollutants, or contaminants above levels that will not allow for unlimited use or unrestricted exposure will remain onsite even after the remedial action has been implemented. EPA must implement Five-Year reviews consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). CERCLA Section 121(c), as amended, states:

> *If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgement of the President that action is appropriate at such site in accordance with section [104] or [106], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.*

The Agency interpreted this requirement further in the NCP; 40 CFR 300.430(f)(4)(ii) states:

> *If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.*

This is the third Five-Year Review for Colbert Landfill. The trigger date for this site was the Second Five-Year Review. The initial Five-Year Review was done on July 13, 1994, just after the construction of the groundwater extraction and treatment system was completed. A second site inspection was done at the completion of the landfill cap and cover system on September 9, 1997. After this 1997 inspection and the acceptance of all deliverables required under the project consent decree, EPA turned the long-term operations and maintenance oversight over to Ecology. The Second Five- Year Review was completed on September 20, 1999.

While the landfill was operating, waste organic solvents were dumped into the landfill for disposal and migrated to the groundwater aquifers beneath the site. The remedial actions are to mitigate the contamination in the aquifers everywhere outside the landfill boundaries to concentrations below the drinking water criteria, thus allowing unrestricted use of the groundwater. The waste solvents found in the landfill waste were not found to be a continuing source and were contained within the closed and capped landfill.

II. Site Chronology

Chronology of Site Events

Event	Date
Initial Problem Identification	4/24/80
Final NPL Listing	9/08/83
Interim Remedial Measure (alternate water supply)	fall 1985
RIFS Completed	9/29/87
ROD Signed	9/29/87
RD/RA Consent Decree (effective date)	2/28/89
RA Construction Started (monitoring wells)	8/28/89
Design Completed (extraction/treatment system)	7/12/93
Previous Five-Year Review (during construction period)	7/13/94
Construction Start (landfill closure)	8/15/96
Construction Completed (extraction/treatment system)	2/13/97

Construction Completed (landfill closure)	5/31/97
EPA Construction Closeout Report (PCOR)	9/09/97
Three of four south system wells placed on standby	4/30/98
Monitoring well sampling frequency reduced to annual	8/31/99
Second Five-Year Review	9/20/99
Fourth south system monitoring well placed on standby	6/2/04

III. Background

The Colbert Landfill Superfund site is a closed, 40-acre, municipal solid waste landfill located approximately 15 miles north of Spokane, Washington, and about 2.5 miles north of Colbert, Washington. The site is owned and was operated by Spokane County (County). The landfill operated from 1968 to 1986, when it became filled to capacity and was covered. In 1996 the landfill cover was upgraded and the landfill capped and closed to meet the new State of Washington regulations for solid waste units. The state landfill closure requirements meet the EPA hazardous waste closure requirements. The cap is a multi-layered, low permeable, cover system designed to reduce infiltration into the buried waste. The site is in a rural setting that is experiencing rural growth on 5-acre parcels. West of the landfill is a new city/county solid waste transfer facility.

Groundwater in the vicinity of the landfill is contaminated with chlorinated organic solvents. In 1983, 20 domestic wells were found to be contaminated above drinking water standards by contaminated groundwater. At least part of this contamination has been traced to spent solvents that were disposed of at the landfill. Solvents were reportedly disposed of at an average rate of several hundred gallons per month for a number of years, and primarily consisted of 1,1,1-trichloroethane (TCA) and methylene chloride (MC). Other organic solvents were also detected in groundwater near the landfill, including trichloroethylene (TCE), tetrachloroethylene (PCE), 1,1-dichloroethylene (DCE), and 1,1-dichloroethane (DCA). These six chlorinated organic solvents are referred to as the "Contaminants of Concern."

In 1980, nearby residents complained to the Eastern Regional Office of the Washington Department of Ecology (Ecology) about disposal practices at the landfill. The U.S. Environmental Protection Agency (EPA) and Ecology supported the Spokane County Utilities Department with an investigation into the citizen complaints and initiated a groundwater contamination study by sampling nearby private wells. The results of this initial sampling and investigation indicated that some private domestic wells were contaminated and an alternate drinking water source was suggested by the Spokane County Health District.

EPA and Ecology recommended the site for the National Priorities List (NPL) in 1982. In October 1983, EPA added the landfill to the NPL list.

IV. Remedial Actions

Remedy Selection

The Spokane County Utilities Department began studies shortly after the identification of the contaminated groundwater problem in 1980. The initial studies were focused on determining the source of the contamination. Then in 1984 the remedial investigation (RI) was started to determine the nature and extent of the contamination under the direction of Ecology and EPA.

The RI data gathering process included the installation and sampling of 34 new groundwater monitoring wells and sampling over 50 private domestic wells around the site. Soil vapor and electromagnetic remote sensing technologies were also used to enhance the well data.

A Risk Assessment was done as a part of the study to evaluate the RI data in terms of risk to human health and the environment. Based upon the Risk Assessment, it was concluded that the most significant risks were from ingestion of (drinking) water from contaminated wells. TCA exceeded the Maximum Contaminant Level (MCL) of 200 mg/l for drinking water in several domestic wells. Concentrations of TCA in the aquifer were consistently around 2000 mg/l in several areas around the landfill.

Although the groundwater is contaminated, the health risks posed by eating crops irrigated by the contaminated groundwater were not considered significant, nor were ingestion of beef or dairy products coming from these irrigated fields. Even the inhalation exposure to volatile organics from showering did not present a public health risk. The depth to groundwater minimized any vapor intrusion issues. These risks have been even further reduced since groundwater treatment has occurred.

The discharge of treated groundwater is to the Little Spokane River. An analysis of the potential effluent was done as part of the NPDES substantive requirements evaluation to determine if discharge standards would be protective. The river has special phosphorous limitations that had to be met in addition to VOC loading.

All the data was evaluated for potential remedies in the site feasibility study (FS) completed in 1987. The RI/FS determined that the two primary aquifers in the landfill vicinity, and a low-productivity aquifer to the east of the landfill, are contaminated with some or all of the Contaminants of Concern. The FS recommended a pump and treat remedy to address this groundwater contamination.

On September 29, 1987, the Record of Decision (ROD) was signed by EPA requiring implementation of the following remedial actions:

- Prevent the further spread of contaminated groundwater towards the south and west from the landfill in the two aquifers by installing and operating interception wells and treating the extracted groundwater;

- Remove contaminated source materials from the groundwater to the east of the landfill which have entered the aquifers and are contributing to the contaminant plume, by installing and operating extraction wells in the area where the plumes originate and treating the effluent; and

- Provide an alternate water supply system to any residents whose domestic water supply has been effected by contamination from the landfill or by the action of the extraction systems,

- Close the landfill to comply with the Ecology landfill closure regulations.

Three of the four identified Potentially Responsible Parties (PRPs) agreed to implement the ROD and signed a Consent Decree along with EPA and Ecology which was entered on February 28, 1989. The County agreed to take the lead on performing the remedial actions with the others providing financial support. The fourth PRP, which did not sign the Consent Decree, did settle with EPA at a later date.

Remedial Construction Activities

The construction activities related to the remedial actions were all completed by Spokane County Utilities Department through County awarded contracts. The County hired an engineering firm to design and then provided construction management for the construction contracts. County engineering staff was in charge of the project and provided oversight of the construction contractors.

The remedial construction actions were divided into three separate projects: an initial Remedial Measure (IRM); installation of the groundwater extraction and treatment system; and landfill closure.

The IRM was the construction of an alternate water supply system to the affected area. This action was designed and constructed before the RI was completed. It consisted of the extension of a municipal (Whitworth Water District #8) supply system. Construction was started in the fall of 1984 and completed in the fall of 1985. The county connected 23 residences with contaminated wells to the new alternate water supply. The supply system was designed to serve the whole area as the needs arose. Since 1985, a few additional new residences have been added to the water system because of their proximity to the contaminated groundwater plume.

The extraction and treatment system consists of 10 extraction wells, the necessary pumps, piping, and controls, and the air-stripping treatment facility with its discharge of treated water to the Little Spokane River.

The landfill closure was designed and constructed after the extraction and treatment system was complete to allow for access to the landfill area if needed for this system and to allow for changes in the state closure requirements to become finalized prior to design. The new landfill closure requirements were finalized after the ROD was signed and it was important to incorporate the new requirements since they were significantly more stringent that the previous ones and were consistent with the EPA RCRA Subtitle D landfill closure requirements.

The original cost estimate to implement the remedial actions described in the ROD was about $14 million. The cost estimates were developed for various alternatives in the FS. Because the selected remedy was a pump and treatment project, the remedial action costs were projected for 30 years of operations and maintenance.

The actual costs for construction of the extraction and treatment system exceeded the original estimates for construction primarily because additional aquifer and plume definition were required before placement of the extraction well systems. An additional 30 monitoring wells at 19 locations were needed because the RI data was inadequate to design the selected remedial action.

The design and construction, including a pilot treatment plant, took about four years to complete. The final start-up of the treatment facility was only about four months later than was scheduled in the original design/construction work plan. The pump and treatment system was substantially complete on May 3, 1994.

The EPA project manager did a pre-final construction completion inspection of the treatment facility and extraction wells on July 13, 1994. Punch list items were related to the computerized controls and wireless telemetry that would make the operation of the system less labor intensive. It took almost a year, February 22, 1995, to debug the electronics and have them accepted by the County.

The following is a summary of the construction events for the extraction and treatment facility phase of the project:

- Fall 1984 to Fall 1985 - Design and construction of the pipeline extension to bring the alternate water supply into the residential area around the landfill.

- March 23, 1989 - County signed the design contract.

- August 8, 1989 - Contract awarded to construct monitoring and extraction wells to be used both for the pilot treatment studies and the final pump and treat.

- 1990-1991 - Construction of the 30 new monitoring wells, the 4 extraction wells to be used for the pilot tests, the effluent discharge line to the Little Spokane River, and a meteorological station. The pilot tests were completed during the spring of 1990.

- December 1991 - Final Phase I Engineering Report providing results of the pilot air stripping tower and groundwater treatability studies.

- March 1992 - Preliminary Treatment and Discharge Plan, Phase II Remedial Design/Remedial Action Plan.

- July 12, 1993 - Approval of the Plans and Technical Specifications for bid.

- September 1993 - Construction of the air-stripping towers, treatment building and extraction system began.

- May 3, 1994 - County accepted pump and treatment facility as functionally complete.

- July 13, 1994 - EPA performed a Pre-Final Close Out Inspection site inspection of the extraction and treatment systems.

- February 22, 1995 - Spokane County fully accepted the treatment facility and extraction well system.

The remedial construction activities consisted of installing monitoring wells, extraction wells, and air-stripping treatment facility, and over four miles of piping conveyance to bring the extracted contaminated groundwater into the air-stripping unit for treatment and then discharge to the Little Spokane River.

A pilot treatment system was constructed and tested in two locations to obtain design data for the design and construction of the air-stripping tower and treatment facility. Although the pilot tests were just satisfactory, they did provide the necessary design data fort the treatment facility.

Treated groundwater discharges easily meet the effluent limits for the Contaminants of Concern and other National Pollution Discharge Elimination System NPDES) substantive requirements. There have been no violations of the effluent limits since the treatment plant came on-line. Treated discharge data is being collected as part of the NPDES requirements.

The third phase of construction for this project was the upgraded closure of the landfill. When the landfill was filled to capacity and waste no longer accepted, clean cover soils were placed over the waste units. It was agreed in the ROD that the County would upgrade the cover to meet all of the revised landfill closure requirements that were under review at that time.

The following is a listing of some of the important actions that lead to landfill closure:

- Summer 1986 - The landfill was filled to capacity and closed for the disposal of further waste material.

- Summer 1986 - A minimum of two feet of clean cover material (soil) was placed over the buried waste units. The site was surveyed to insure that there was at least two feet of clean cover over the entire site for compliance with the operating permit. At the time the ROD was written, this was the state requirement for landfill closure.

- August 29, 1995 - Contracted for design of the landfill cap to be consistent with current state and federal closure regulations.

- April 15, 1996 - Notice to Proceed for construction of the landfill closure.

- August 1996 - Construction essentially complete for all of the work elements.

- April 3, 1996 - Preliminary Closeout site inspection of landfill closure by Ecology and EPA.

- May 31, 1997 - Construction fulfilled. All of the punch-list items were completed. Remedial actions fully operational and functional.

System Operations/Operations and Maintenance (O&M)

The County hired and trained a system operator to run the extraction and treatment systems. She was in-place before the completion of construction and was trained during startup of the system. The County also hired and trained staff to perform the groundwater sampling which is a required part of the system performance and compliance monitoring. The County's Project Manager and staff have a solid command of the treatment needs, processes, and functions of the overall pump and treat system for groundwater contamination control and cleanup.

Original operations and maintenance costs were estimated to be approximately $300,000 per year. Actual O&M costs over the last five years have ranged from approximately $350,000 to $390,000 per year with no large variations in specific budget areas.

V. Progress since the Last Five-Year Review

There were no actions or recommendations included in the last five year review. The Second Five-Year Review stated, "The cleanup goals for the groundwater that were established in the ROD are still considered protective of human health and the environment and the remedial actions for this site were protective when constructed and continue to remain protective."

There were a few actions the County has taken since the last review. The concentrations of groundwater contaminants reaching the extraction wells in the South Extraction System has decreased sufficiently to allow all four extraction wells to be converted to monitoring wells and still maintain the required groundwater quality in the Upper Aquifer south of these hydraulic barrier control wells. At the time of this review, six of the original 10 extraction wells are delivering contaminated groundwater to the treatment facility. Operating efficiency has been improved by some minor modifications at the facility. This included programming changes to the telemetry system and installing a fan motor that is compatible with the in-place variable frequency drive extraction pumps. With a decrease in overall influent flow, the new motor enables the operator to keep the air to water ratio constant by running the fan at lower speeds and thereby reducing electricity demands.

VI. Five-Year Review Process

Community Involvement

A public notification was published on September 15, 2004, by the local newspaper, *The Spoksman Review*, that a five-year review was being conducted and comments were solicited. No comments have been received from this announcement.

Document Review

Relevant documents were reviewed including operations and maintenance plans and records, monitoring data, quarterly progress reports, and the project consent decree.

Data Review

The review included the monitoring data generated from the Site monitoring program. Monthly and quarterly data on water quality provide the project managers with checks on whether the extraction and treatment system was providing the hydraulic barrier for the Upper Aquifer at the South Extraction Wells and source control in the Lower Aquifer (East and West Extraction System) as expected. With over ten years of data available on the aquifer water quality and on the performance of the treatment system, reliability and trends can be established. The active extraction and treatment system is performing within the design parameters and there have been no problems meeting the effluent discharge requirements established for the Site treatment system for discharge to the Little Spokane River. Data also indicates that the contaminant concentrations in the aquifers are decreasing steadily (See Appendix Figures A-1 through A-4 and Tables A-1 through A-4). The overall size and shape of the contaminated groundwater plume has not changed significantly, but active pumping has reduced the concentrations, especially in the Lower Aquifer.

Figures A-1 and A-2 represent the Upper Aquifer. Over the last 10 years of groundwater monitoring and controls, the plume has not spread further south. The contaminant concentrations have decreased which has allowed the South Extraction Wells to be placed on standby (not pumping) and still meet the cleanup goals for the Upper Aquifer. The South System was installed to prevent the plume from migrating further south and impacting more area.

Figures A-3 and A-4 represent the Lower Aquifer. Extraction wells are still pumping contaminated groundwater from the Lower Aquifer to the treatment system. The pumping has decreased the size of the area exceeding the cleanup performance standard established for this Site.

The operations staff has tremendous knowledge about the working and functions of the project from water quality monitoring to maintenance of the treatment system. The staff has diagnosed problems and made improvements and fixes to various parts of the system as they arose. This trained staff is proving to be an asset to the County as it closes other County landfills. Having the operators respond to system glitches 24-hours-per day-seems to be a great incentive to solving the cause of problems not just re-starting or patching the effects.

Site Visit and Inspection

The site is inspected monthly by the operating staff. A Five-Year Review site visit and inspection was performed on September 24, 2004, by County personnel. The Five-Year Review Site Inspection Checklist is included as an Attachment to this report.

VII. Technical Assessment

Question A: Is the remedy functioning as intended by the decision documents?

Yes: This project is working as designed and continuing to provide protection to users of this groundwater resource. The groundwater monitoring is providing data that concludes the systems are working. The overall area of detected contamination in the two aquifers remains about the same, but the overall concentrations of contaminants in the groundwater are decreasing, and the plume size above the cleanup levels is shrinking (see plume coverage in Figures A-1 through A-4 in the Appendix). Constituents of concern concentrations arriving at the facility via the influent have continued to decrease (see Figure A-5). A total of 9,450 pounds of constituents of concern have been removed from influent since facility startup (see Figure A-6). The treatment system meets the substantive requirements of the NPDES for discharge into the Little Spokane River. The municipal water supply system has been able to expand to provide potable water to any new residents that moved into the area. The County has been able to keep new wells from being constructed over the plume. The landfill cover system has been operating effectively and the County is in compliance with Ecology landfill closure requirements. Pumps, wells, and landfill cover all need occasional service, but this has been within the normal expected O&M activities. The air discharges from the treatment system and the landfill gas emissions continue to meet the air emission requirements. The remedial actions remain protective of human health and the environment.

System operations as currently implemented will continue to deliver the effectiveness of the remedy. Opportunities for reduction in costs may include further monitoring frequency reductions (as provided for in Sections V.A.2.a and V.C.2.b of the consent decree), however, the savings in cost for this alone would be minimal. Some cost reductions have already been implemented through minor facility equipment and software changes.

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy still valid?

Yes. Constituents of concern concentrations in the aquifer(s) continue to decrease. The current levels in areas where residential wells are being used are well below clean-up criteria or not detected (See domestic well monitoring data in Table A-4 in Appendix). There appears to be no changes in concentrations or analytes present to warrant reassessment of exposure. There has been housing development growth in the area near the south system extraction wells that includes the use of septic tanks and drainfields. This development could have a possible impact on area water quality in the Upper Aquifer but is not thought to impact the current extraction and treatment system.

Since the Second Five-Year Review, a new constituent of concern has emerged; 1,4-dioxan. This VOC is found in association with TCA. 1,4-dioxan is a suspected human carcinogen and may be found at the Site. Sampling for this contaminant needs to be done to determine if it is present at the Site. If found, an evaluation of the risk should be done to insure that the remedy and remedial actions continue to be protective.

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

No. There are no changes in Site conditions that would affect the protectiveness of the remedy. The plumes are not expanding and contamination is being removed as anticipated.

Technical Assessment Summary

According to data review and the site inspection, the remedy is functioning as intended by the ROD and the Site consent decree. No physical site changes have occurred that would affect the remedy. Some equipment and software modifications have been completed to increase system efficiency and aid in reducing costs.

Active Site management is implementing the institutional controls (ICs) that are stated in the EPA ROD. The groundwater monitoring is adequate to determine if there are any impacts to the aquifers by water withdrawals that could affect the plume migration. New residential development in the area is being connected to a municipal water supply rather than installing new residential wells in a contaminated aquifer. This is being done by actively working with the building permits department since there is no legal requirement for connecting to the water system over installing a drinking water well. The required deed notation for the closed landfill has been completed and is filed with the county. Major issues concerning the contaminated groundwater plume migration away from the extraction wells might occur if new large irrigation wells were constructed near the Site. The existing irrigation wells have not had an impact, and development is trending towards smaller tracts rather than larger farms. The other IC that was in the ROD was for water replacement if the Site's groundwater extraction system rendered any existing well usage unusable. This has not occurred.

There has been no specific interest in reuse of this site. The Site is located in a rural setting with undeveloped land available. The landfill cap and cover system was not designed nor constructed to support any specific reuse. Currently access to the Site is restricted and it remains as open space.

VIII. Issues

No specific O&M issues were noted during the file review or during the site inspection. The "Five-Year Review Site Inspection Checklist" is attached with the results of the site inspection. The sampling of the groundwater for 1,4-dioxan is a new concern that needs to be added to the Sample Plan.

IX. Recommendations and Required Actions

The request for analyzing for the constituent, 1,4-dioxan, to the data gathered from the Site is new. The changes needed in the Sample Plan will be discussed among the County, Ecology, and EPA to obtain this data. No other specific actions for improvements or changes are being forwarded to the PRPs based on this Five-Year Review.

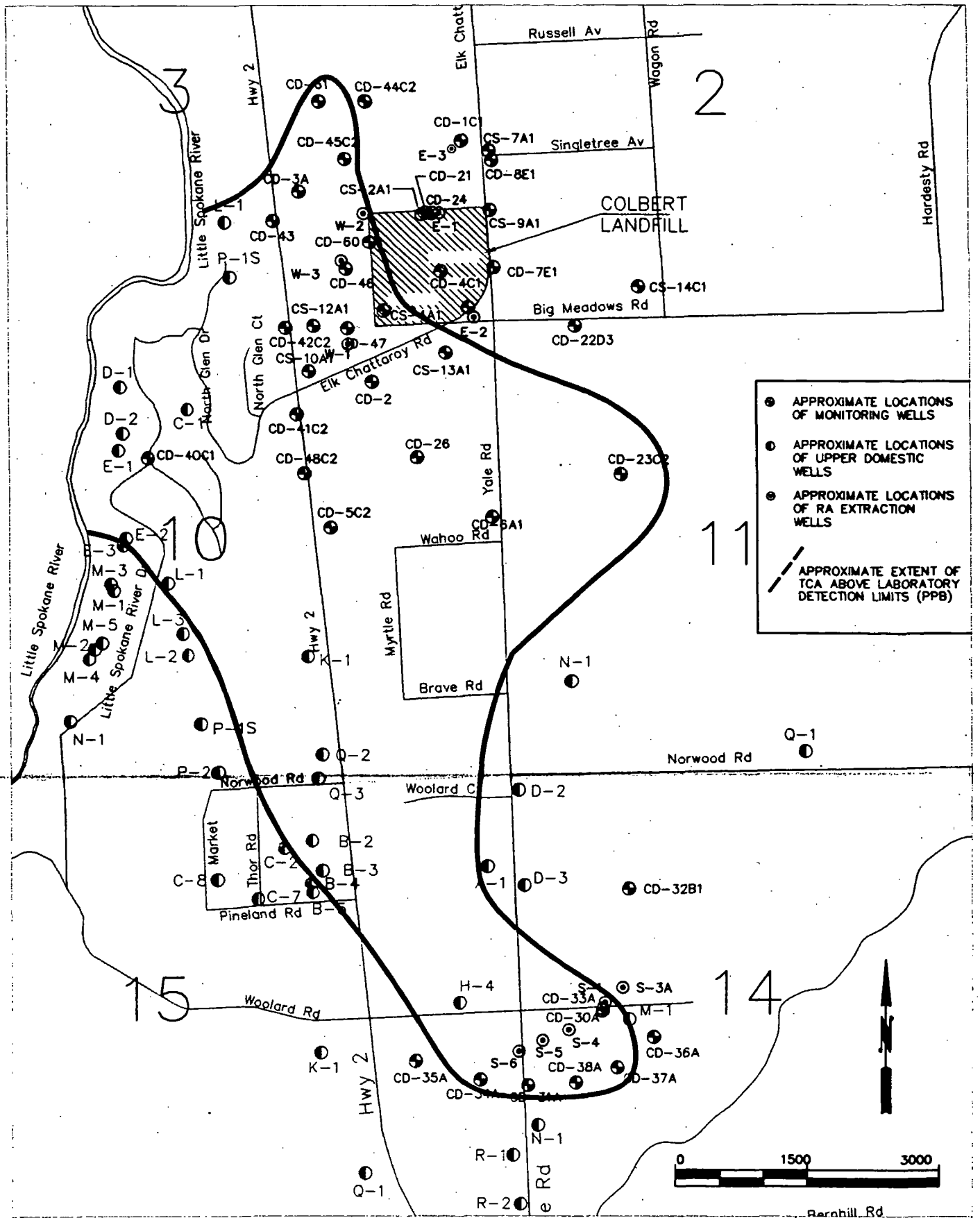
X. Protectiveness Statement

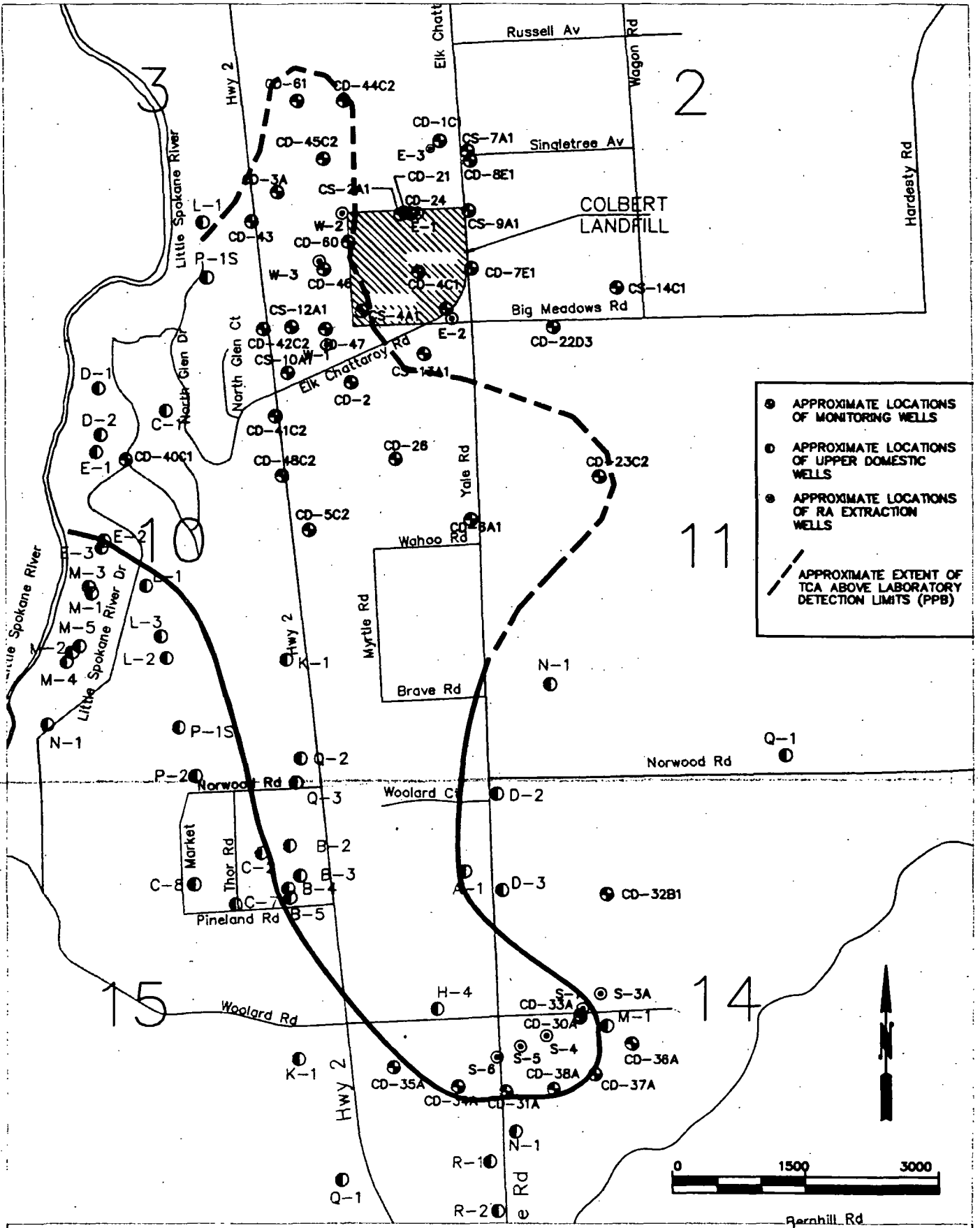
Because the remedial actions at this site are protective, the site is protective of human health and the environment.

XI. Next Review

The next, Fourth Five-Year Review is to be conducted within the next five years, but not later than September 20, 2009.

APPENDICIES

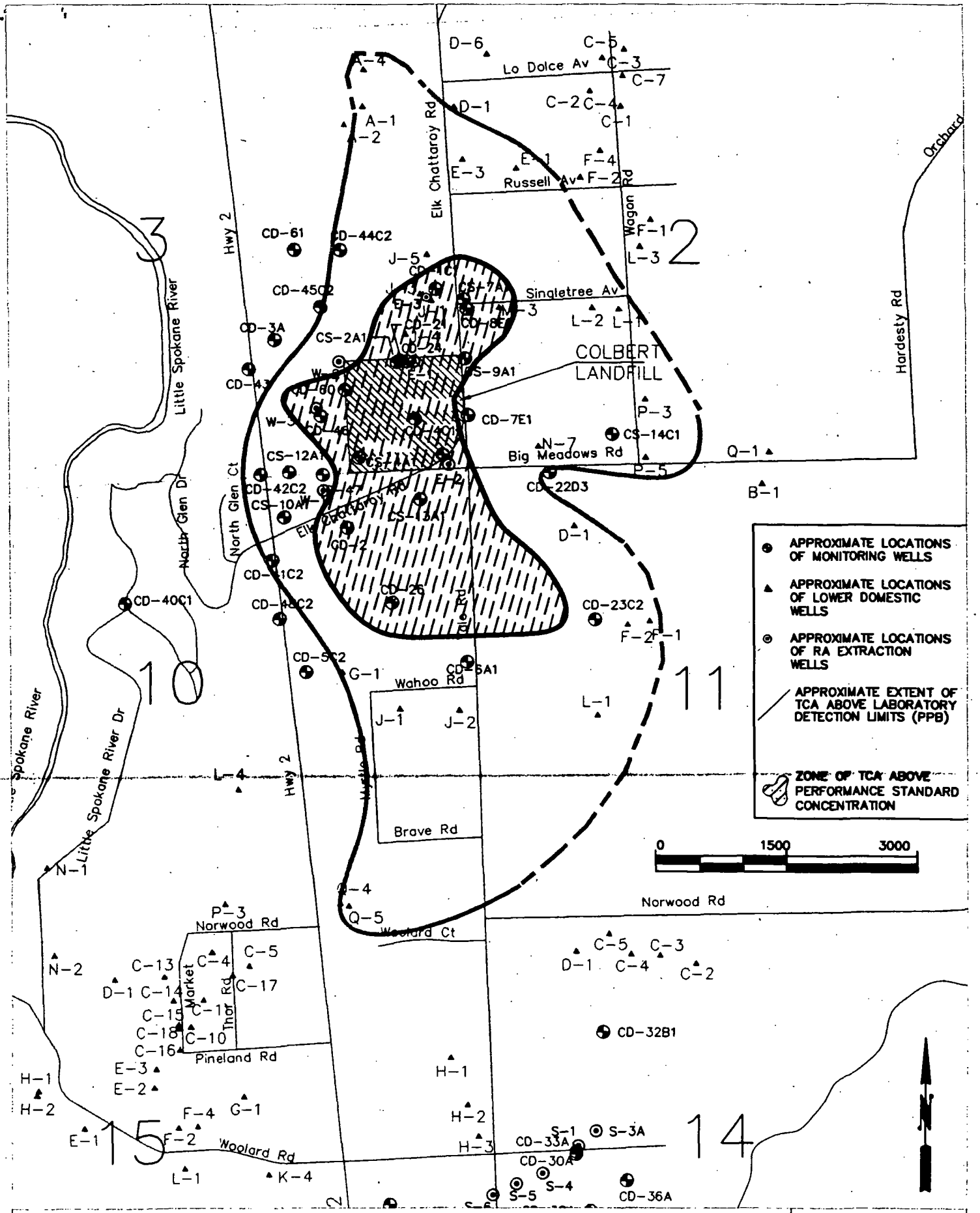

APPROXIMATE LOCATIONS OF MONITORING WELLS
APPROXIMATE LOCATIONS OF UPPER DOMESTIC WELLS
APPROXIMATE LOCATIONS OF RA EXTRACTION WELLS
APPROXIMATE EXTENT OF TCA ABOVE LABORATORY DETECTION LIMITS (PPB)
COLBERT LANDFILL
Russell Av
Singletree Av
Big Meadows Rd
Elk Chattaroy Rd
Wahoo Rd
Brave Rd
Norwood Rd
Woolard Rd
Pineland Rd
Berghill Rd
Hwy 2
Elk Chatt
Wagon Rd
Hardesty Rd
Little Spokane River
North Glen Dr
North Glen Ct
Yale Rd
Myrtle Rd
Market
Thor Rd
0
1500
3000
UPPER AQUIFER
APPROXIMATE EXTENT OF TCA , 1995
FIGURE A-1



UPPER AQUIFER

APPROXIMATE EXTENT OF TCA , APRIL 2004

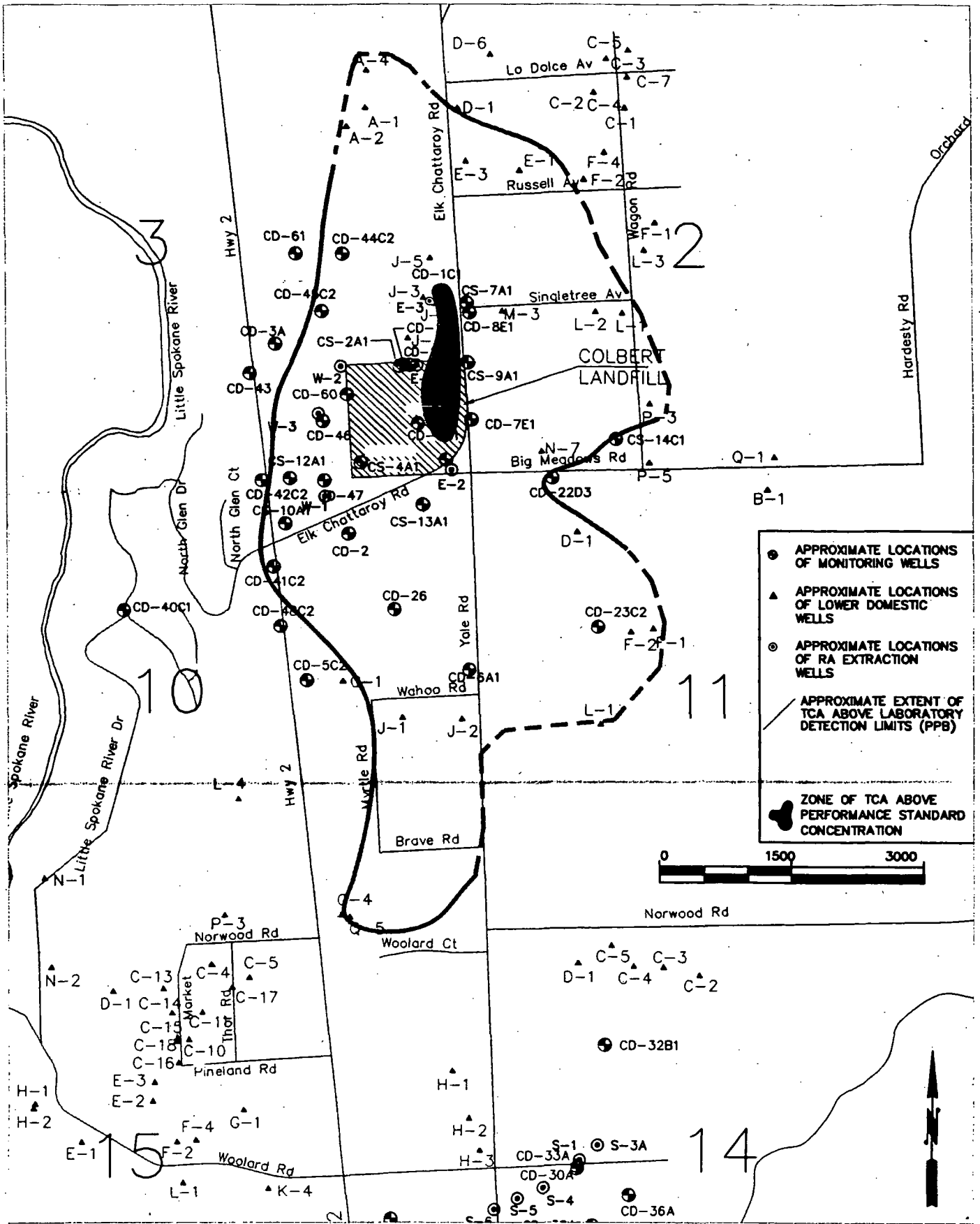
FIGURE A-2



LOWER AQUIFER

APPROXIMATE EXTENT OF TCA , 1995

FIGURE A-3



LOWER AQUIFER

APPROXIMATE EXTENT OF TCA, APRIL 2004

FIGURE A-4

FIGURE A-5

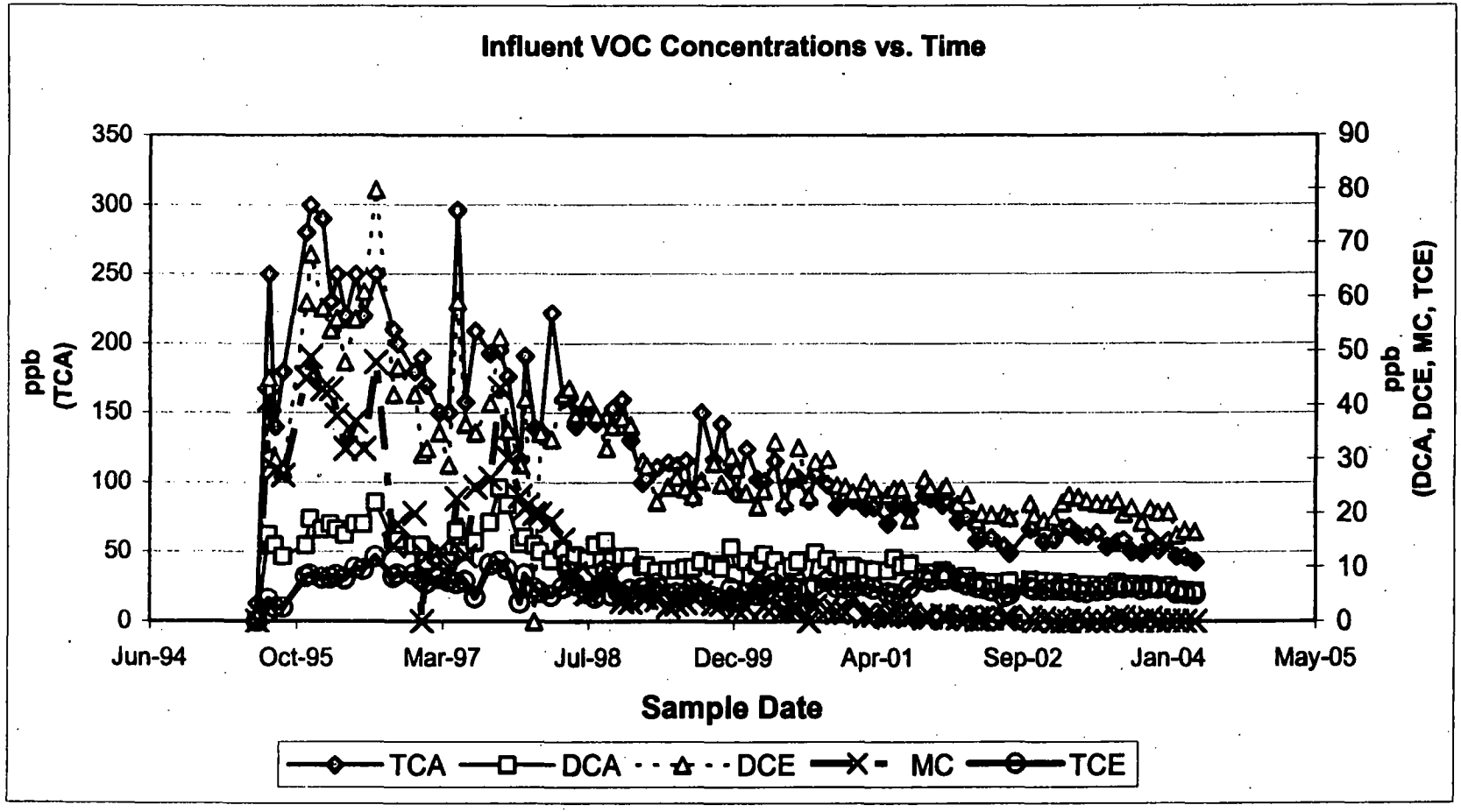

Influent VOC Concentrations vs. Time
ppb (TCA)
ppb (DCA, DCE, MC, TCE)
350
300
250
200
150
100
50
0
90
80
70
60
50
40
30
20
10
0
Jun-94
Oct-95
Mar-97
Jul-98
Dec-99
Apr-01
Sep-02
Jan-04
May-05
Sample Date
TCA
DCA
DCE
MC
TCE

FIGURE A-6

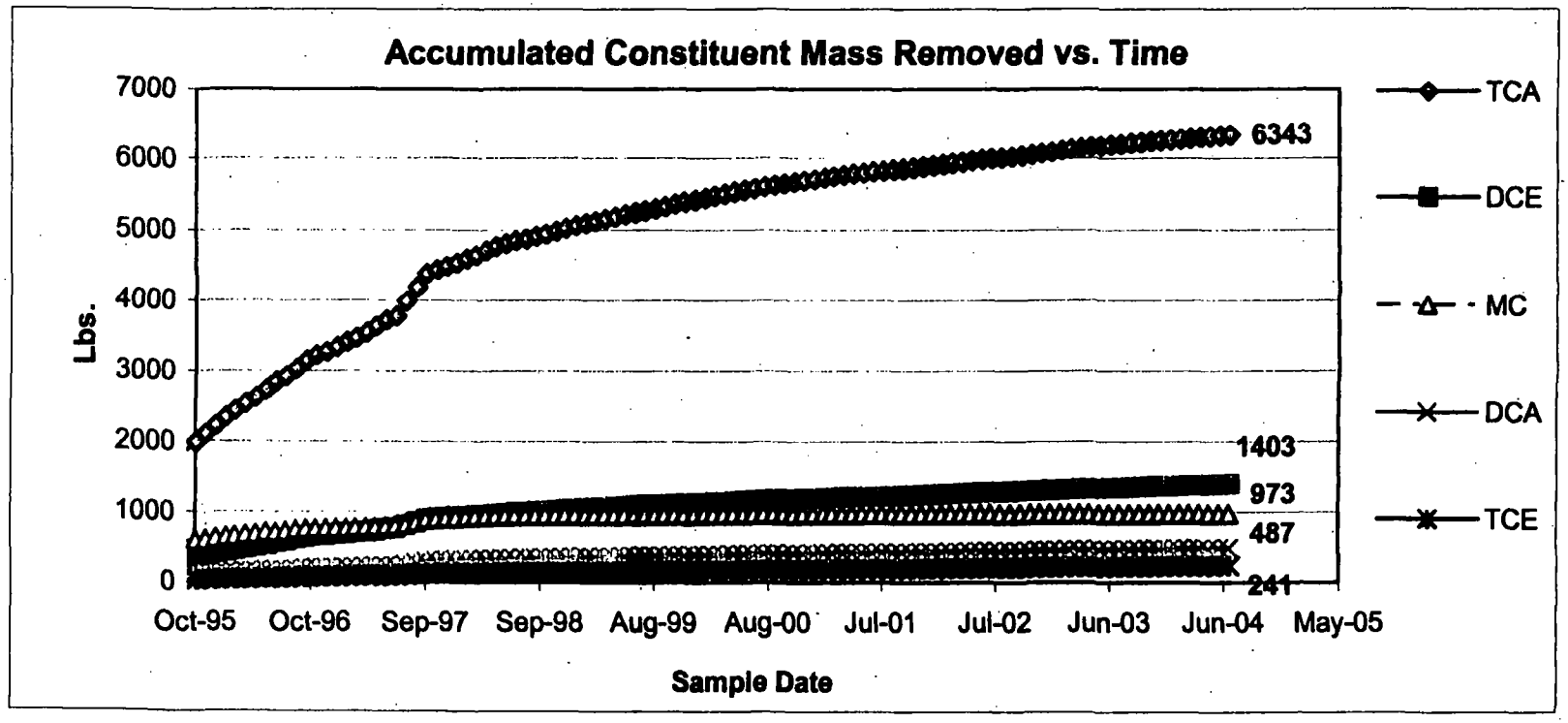

Accumulated Constituent Mass Removed vs. Time
7000
6000
5000
4000
3000
2000
1000
0
Lbs.
6343
1403
973
487
241
TCA
DCE
MC
DCA
TCE
Oct-95
Oct-96
Sep-97
Sep-98
Aug-99
Aug-00
Jul-01
Jul-02
Jun-03
Jun-04
May-05
Sample Date

TABLE A-1
COLBERT LANDFILL COMPLIANCE MONITORING WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CD-31A1	upper	1/5/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-31A1	upper	4/5/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-31A1	upper	7/20/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-31A1	upper	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.545	0.5 U
CD-31A1	upper	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-31A1	upper	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.17	0.5 U
CD-31A1	upper	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	1.12	0.5 U
CD-31A1	upper	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.69	0.5 U
CD-34A1	upper	1/5/1999		1 U	1 U	1 U	0.5 U	2.02	0.5 U
CD-34A1	upper	4/5/1999		1 U	1 U	1 U	0.5 U	2.84	0.5 U
CD-34A1	upper	7/20/1999		1 U	1 U	1 U	0.5 U	2.1	0.5 U
CD-34A1	upper	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	1.013	0.5 U
CD-34A1	upper	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	1.62	0.5 U
CD-34A1	upper	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.23	0.5 U
CD-34A1	upper	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	1.17	0.5 U
CD-34A1	upper	4/13/2004		0.5 U	0.5 U	0.5 U	0.81	0.92	0.5 U
CD-36A1	upper	1/5/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-36A1	upper	4/5/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-36A1	upper	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-36A1	upper	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-36A1	upper	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-36A1	upper	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	11.14	0.5 U
CD-36A1	upper	10/20/2003		12.77	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-36A1	upper	4/12/2004		20.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-37A1	upper	1/5/1999		1 U	1 U	1 U	0.5 U	4.85	0.5 U
CD-37A1	upper	4/5/1999		1.11	1 U	1 U	0.5 U	5.87	0.5 U
CD-37A1	upper	7/19/1999		1 U	1 U	1 U	0.5 U	4.29	0.5 U
CD-37A1	upper	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	2.217	0.5 U
CD-37A1	upper	4/2/2001		0.9	0.66	0.5 U	0.5 U	3.31	0.5 U
CD-37A1	upper	4/9/2002		0.92	0.56	0.5 U	0.5 U	2.44	0.5 U
CD-37A1	upper	4/7/2003		0.76	0.53	0.5 U	0.5 U	2.13	0.5 U
CD-37A1	upper	4/12/2004		0.57	0.5 U	0.5 U	0.5 U	1.45	0.5 U
CD-38A1	upper	1/5/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-38A1	upper	4/5/1999		0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
CD-38A1	upper	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-38A1	upper	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.54
CD-38A1	upper	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U
CD-38A1	upper	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	1.08	0.5 U
CD-38A1	upper	10/20/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.54	0.5 U
CD-38A1	upper	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.58	0.5 U
CP-S3	upper	1/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CP-S3	upper	4/5/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CP-S3	upper	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CP-S3	upper	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CP-S3	upper	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CP-S3	upper	4/9/2002		0.5 U	0.5 U	3.45	0.5 U	0.5 U	0.5 U
CP-S3	upper	4/24/2002		0.5 U	0.5 U	2.85	0.5 U	0.5 U	0.5 U
CP-S3	upper	4/24/2002	*	0.5 U	0.5 U	3.07	0.5 U	0.5 U	0.5 U
CP-S3	upper	7/16/2002		0.5 U	0.5 U	2.28	0.5 U	0.5 U	0.5 U
CP-S3	upper	8/5/2002		0.5 U	0.5 U	1.74	0.5 U	0.5 U	0.5 U
CP-S3	upper	8/5/2002	*	0.5 U	0.5 U	1.79	0.5 U	0.5 U	0.5 U
CP-S3	upper	10/10/2002		0.5 U	0.5 U	1.13	0.5 U	0.5 U	0.5 U
CP-S3	upper	1/14/2003		0.5 U	0.5 U	1.2	0.5 U	0.5 U	0.5 U
CP-S3	upper	4/7/2003		0.5 U	0.5 U	0.89	0.5 U	0.5 U	0.5 U

TABLE A-1
COLBERT LANDFILL COMPLIANCE MONITORING WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CP-S3	upper	10/20/2003		0.5 U	0.5 U	0.86	0.5 U	0.5 U	0.5 U
CP-S3	upper	1/14/2004		0.5 U	0.5 U	0.78	0.5 U	0.5 U	0.5 U
CP-S3	upper	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-40C1	lower	1/6/1999		23.7	10.3	1 U	0.5 U	68.45	0.5 U
CD-40C1	lower	1/6/1999	*	24.6	9.75	1 U	0.5 U	65.65	0.5 U
CD-40C1	lower	4/6/1999		25.4	8.34	1 U	0.5 U	69.8	0.5 U
CD-40C1	lower	4/6/1999	*	25.5	8.43	1 U	0.5 U	70.9	0.5 U
CD-40C1	lower	7/20/1999		22.2	7.22	1 U	0.5 U	61.2	0.5 U
CD-40C1	lower	7/20/1999	*	22.4	10.78	1 U	0.5 U	59.7	0.5 U
CD-40C1	lower	4/11/2000		18.451	9.31	0.5 U	0.5 U	47.17	0.5 U
CD-40C1	lower	4/2/2001		20.28	8.14	0.5 U	0.5 U	38.8	0.5 U
CD-40C1	lower	4/9/2002		13.51	6.45	0.5 U	0.5 U	24.8	0.5 U
CD-40C1	lower	4/7/2003		11.42	7.13	0.5 U	0.5 U	19.65	0.5 U
CD-40C1	lower	4/13/2004		7.58	5.07	0.5 U	0.5 U	11.5	0.5 U
CD-41C1	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-41C1	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-41C1	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-41C1	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C1	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C1	lower	4/9/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C1	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U
CD-41C1	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C2	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-41C2	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-41C2	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-41C2	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C2	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C2	lower	4/9/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C2	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C2	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-41C3	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2.2	0.5 U
CD-41C3	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2.64	0.5 U
CD-41C3	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2.72	0.5 U
CD-41C3	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	3.431	0.5 U
CD-41C3	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	3.91	0.5 U
CD-41C3	lower	10/16/2001		0.5 U	0.5 U	0.5 U	0.5 U	4.58	0.61
CD-41C3	lower	4/9/2002		0.5 U	0.5 U	0.5 U	0.5 U	3.9	0.5 U
CD-41C3	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	4.71	0.5 U
CD-41C3	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	4.2	0.5 U
CD-42C1	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C1	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C1	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C1	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C1	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C1	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C1	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C1	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C2	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C2	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C2	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C2	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C2	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C2	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C2	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE A-1
COLBERT LANDFILL COMPLIANCE MONITORING WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CD-42C2	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C3	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C3	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C3	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-42C3	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C3	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C3	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C3	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-42C3	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C1	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C1	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C1	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2.15	0.5 U
CD-43C1	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	5.536	0.5 U
CD-43C1	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	1.31	0.5 U
CD-43C1	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.01	0.5 U
CD-43C1	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.51	0.5 U
CD-43C1	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C2	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C2	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C2	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C2	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C2	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C2	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C2	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C2	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C3	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C3	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C3	lower	7/19/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-43C3	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C3	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C3	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C3	lower	4/7/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-43C3	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-44C1	lower	1/13/1999		1 U	1 U	1 U	0.5 U	13.74	0.5 U
CD-44C1	lower	4/7/1999		1 U	1 U	1 U	0.5 U	15.62	0.5 U
CD-44C1	lower	7/20/1999		1 U	1 U	1 U	0.5 U	15.02	0.5 U
CD-44C1	lower	4/11/2000		1.093	2.714	0.5 U	0.5 U	43.5	0.5 U
CD-44C1	lower	4/3/2001		0.6	2.51	0.5 U	0.5 U	36.7	0.5 U
CD-44C1	lower	4/9/2002		0.5 U	1.24	0.5 U	0.5 U	12.57	0.5 U
CD-44C1	lower	4/8/2003		0.5 U	1.1	0.5 U	0.5 U	12.59	0.5 U
CD-44C1	lower	4/13/2004		0.5 U	0.6	0.5 U	0.5 U	7.85	0.5 U
CD-44C2	lower	1/13/1999		1 U	1 U	1 U	0.5 U	5.13	0.5 U
CD-44C2	lower	4/7/1999		1 U	1 U	1 U	0.5 U	4.43	0.5 U
CD-44C2	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2.6	0.5 U
CD-44C2	lower	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	2.798	0.5 U
CD-44C2	lower	4/3/2001		0.5 U	0.5 U	0.5 U	0.5 U	4	0.5 U
CD-44C2	lower	4/9/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.28	0.5 U
CD-44C2	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	1.7	0.5 U
CD-44C2	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.94	0.5 U
CD-44C3	lower	1/13/1999		1 U	1.21	1 U	0.5 U	11.37	0.5 U
CD-44C3	lower	4/7/1999		1 U	1 U	1 U	0.5 U	9.98	0.5 U
CD-44C3	lower	7/20/1999		1 U	1 U	1 U	0.5 U	7.39	0.5 U
CD-44C3	lower	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	2.692	0.5 U
CD-44C3	lower	4/3/2001		0.5 U	0.5 U	0.5 U	0.5 U	2.78	0.5 U

TABLE A-1
COLBERT LANDFILL COMPLIANCE MONITORING WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CD-44C3	lower	4/9/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.72	0.5 U
CD-44C3	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.99	0.5 U
CD-44C3	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.82	0.5 U
CD-45C1	lower	1/13/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-45C1	lower	4/7/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-45C1	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-45C1	lower	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.768	0.5 U
CD-45C1	lower	4/3/2001		0.5 U	0.5 U	0.5 U	0.5 U	1.05	0.5 U
CD-45C1	lower	4/10/2002		0.5 U	0.5 U	0.5 U	0.5 U	2.94	0.5 U
CD-45C1	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	6.5	0.5 U
CD-45C1	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	5.22	0.5 U
CD-45C2	lower	1/13/1999		1 U	1 U	1 U	0.5 U	7.19	0.5 U
CD-45C2	lower	4/7/1999		1 U	1 U	1 U	0.5 U	3.88	0.5 U
CD-45C2	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2.26	0.5 U
CD-45C2	lower	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	1.092	0.5 U
CD-45C2	lower	4/3/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.89	0.5 U
CD-45C2	lower	4/10/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C2	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C2	lower	4/13/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C3	lower	1/13/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-45C3	lower	4/7/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-45C3	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-45C3	lower	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C3	lower	4/3/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C3	lower	4/10/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C3	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-45C3	lower	4/14/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C1	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C1	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C1	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C1	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C1	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C1	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C1	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C1	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C2	lower	1/13/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C2	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C2	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C2	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C2	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C2	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C2	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C2	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C3	lower	1/12/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C3	lower	4/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C3	lower	7/20/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-48C3	lower	4/10/2000		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C3	lower	4/2/2001		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C3	lower	4/8/2002		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C3	lower	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-48C3	lower	4/12/2004		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE A-2
COLBERT LANDFILL EXTRACTION WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CP-S1	upper	1/7/1999		10.47	2.17	1 U	0.5 U	14.04	1.28
CP-S1	upper	4/8/1999		13.44	2.75	1 U	0.5 U	27.2	0.96
CP-S1	upper	7/21/1999		10.16	2	1 U	0.5 U	16.32	0.97
CP-S1	upper	10/12/1999		9.263	3.141	1 U	0.5 U	15.678	1.356
CP-S1	upper	1/17/2000		11.003	3.536	1 U	0.5 U	18.915	1.616
CP-S1	upper	4/11/2000		7.894	1.563	0.5 U	0.5 U	11.674	1.433
CP-S1	upper	7/5/2000		9.02	1.77	0.5 U	0.5 U	10.36	1.69
CP-S1	upper	10/26/2000		8.8	2.11	0.5 U	0.5 U	9.25	2.05
CP-S1	upper	1/23/2001		10.9	2.79	0.5 U	0.5 U	11.9	2.54
CP-S1	upper	4/4/2001		7.77	1.59	0.5 U	0.5 U	7.43	2.07
CP-S1	upper	7/9/2001		6.62	1.44	0.5 U	0.5 U	7.04	1.98
CP-S1	upper	10/15/2001		6.41	1.33	0.5 U	0.5 U	6.58	1.87
CP-S1	upper	1/21/2002		6.89	1.33	0.5 U	0.5 U	6.41	2.05
CP-S1	upper	4/11/2002		2.93	0.97	0.5 U	0.99	3.56	2.89
CP-S1	upper	7/16/2002		7.07	1.32	0.5 U	0.5 U	5.18	2.08
CP-S1	upper	10/10/2002		7.08	1.37	0.5 U	0.5 U	5.59	2.22
CP-S1	upper	1/15/2003		7.04	1.59	0.5 U	0.5 U	6.07	2.6
CP-S1	upper	4/9/2003		7.16	1.52	0.5 U	0.5 U	5.74	2.69
CP-S1	upper	7/22/2003		6.21	1.34	0.5 U	0.5 U	4.93	2.47
CP-S1	upper	10/15/2003		5.6	1.79	0.5 U	0.5 U	5.71	0.5 U
CP-S1	upper	1/14/2004		5.75	1.32	0.5 U	0.5 U	4.71	2.58
CP-S1	upper	4/15/2004		5.27	1.27	0.5 U	0.5 U	4.48	2.39
CP-S4	upper	1/7/1999		14.9	2.44	1 U	1.04	9.05	4.13
CP-S4	upper	4/8/1999		17.3	1.96	1 U	1.11	11.16	4.64
CP-S4	upper	7/21/1999		16.04	2.15	1 U	0.92	9.86	4.35
CP-S4	upper	10/12/1999		17.075	2.912	1 U	1.168	10.866	5.106
CP-S4	upper	1/17/2000		15.893	2.462	1 U	0.944	10.936	5.097
CP-S4	upper	4/11/2000		7.192	1.061	0.5 U	0.605	4.716	2.738
CP-S4	upper	7/5/2000		7.43	1.47	0.5 U	0.87	5.1	3.09
CP-S4	upper	10/26/2000		6.25	1.32	0.5 U	0.87	4.51	2.9
CP-S4	upper	1/23/2001		10	1.81	0.5 U	1	7.11	4.12
CP-S4	upper	4/4/2001		6.31	1.36	0.5 U	0.94	4.84	3.42
CP-S4	upper	7/9/2001		6.31	1.8	0.5 U	1.08	6.75	4.05
CP-S4	upper	10/15/2001		6.17	1.39	0.5 U	0.87	5.46	3.43
CP-S4	upper	1/21/2002		3.37	0.89	0.5 U	0.89	3.51	2.93
CP-S4	upper	4/11/2002		2.94	0.86	0.5 U	0.87	3.15	2.75
CP-S4	upper	7/16/2002		2.99	0.91	0.5 U	0.92	3.2	2.75
CP-S4	upper	10/10/2002		2.94	0.99	0.5 U	0.87	3.59	2.75
CP-S4	upper	1/15/2003		2.79	1.07	0.5 U	1.06	3.87	3.46
CP-S4	upper	4/9/2003		3.65	1.43	0.5 U	1.16	5.08	4.05
CP-S4	upper	7/22/2003		3.52	1.3	0.5 U	1	4.82	3.78
CP-S4	upper	10/15/2003		2.75	1.2	0.5 U	0.9	3.76	3.5
CP-S4	upper	1/14/2004		2.82	0.96	0.5 U	0.81	3.09	3.03
CP-S4	upper	4/15/2004		3.19	1.01	0.5 U	0.79	3.69	2.88
CP-S5	upper	1/7/1999		3.15	1.35	1 U	0.5 U	6.24	0.5 U
CP-S5	upper	4/8/1999		2.93	1 U	1 U	0.5 U	5.23	0.52
CP-S5	upper	7/21/1999		2.78	1 U	1 U	0.5 U	4.88	0.51
CP-S5	upper	10/12/1999		2.622	1.044	1 U	0.5 U	3.943	0.603
CP-S5	upper	1/17/2000		2.71	1.063	1 U	0.5 U	4.43	0.768
CP-S5	upper	4/11/2000		2.012	0.589	0.5 U	0.5 U	3.559	0.5 U
CP-S5	upper	7/5/2000		1.69	0.64	0.5 U	0.5 U	3.05	0.5 U
CP-S5	upper	10/26/2000		2	0.83	0.5 U	0.5 U	3.63	0.5 U
CP-S5	upper	1/23/2001		1.86	0.73	0.5 U	0.5 U	3.34	0.5 U
CP-S5	upper	4/4/2001		1.83	0.73	0.5 U	0.5 U	3.37	0.5 U

TABLE A-2
COLBERT LANDFILL EXTRACTION WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CP-S5	upper	7/9/2001		1.77	0.66	0.5 U	0.5 U	3.43	0.5 U
CP-S5	upper	10/15/2001		1.69	0.73	0.5 U	0.5 U	3.58	0.5 U
CP-S5	upper	4/11/2002		1.58	0.64	0.5 U	0.5 U	3.02	0.5 U
CP-S5	upper	7/16/2002		1.5	0.53	0.5 U	0.5 U	2.7	0.5 U
CP-S5	upper	10/10/2002		1.63	0.75	0.5 U	0.5 U	3.45	0.5 U
CP-S5	upper	1/15/2003		1.33	0.58	0.5 U	0.5 U	2.72	0.5 U
CP-S5	upper	4/9/2003		0.94	0.5	0.5 U	0.5 U	2.15	0.5 U
CP-S5	upper	7/22/2003		1	0.55	0.5 U	0.5 U	2.36	0.5 U
CP-S5	upper	10/15/2003		0.86	0.5 U	0.5 U	0.5 U	2.06	0.5 U
CP-S5	upper	1/14/2004		0.89	0.5 U	0.5 U	0.5 U	1.98	0.5 U
CP-S5	upper	4/15/2004		0.77	0.5 U	0.5 U	0.5 U	1.81	0.5 U
CP-S6	upper	1/7/1999		2.18	1.2	1 U	0.5 U	5.51	0.5 U
CP-S6	upper	4/8/1999		1.85	1	1 U	0.5 U	6.81	0.5 U
CP-S6	upper	7/21/1999		1.36	1 U	1 U	0.5 U	5.31	0.5 U
CP-S6	upper	10/12/1999		1.657	1.399	1 U	0.5 U	6.158	0.5 U
CP-S6	upper	1/17/2000		1.931	1.5	1 U	0.5 U	6.259	0.5 U
CP-S6	upper	4/11/2000		1.495	0.895	0.5 U	0.5 U	4.897	0.5 U
CP-S6	upper	7/5/2000		0.9	0.8	0.5 U	0.5 U	3.6	0.5 U
CP-S6	upper	10/26/2000		1.45	1.15	0.5 U	0.5 U	4.9	0.5 U
CP-S6	upper	1/23/2001		1.56	0.75	0.5 U	0.5 U	3.45	0.5 U
CP-S6	upper	4/4/2001		1.49	0.69	0.5 U	0.5 U	2.86	0.5 U
CP-S6	upper	7/9/2001		1.46	0.74	0.5 U	0.5 U	2.69	0.5 U
CP-S6	upper	10/15/2001		1.36	0.6	0.5 U	0.5 U	2.94	0.5 U
CP-S6	upper	1/21/2002		1.31	0.58	0.5 U	0.5 U	2.76	0.5 U
CP-S6	upper	4/11/2002		1.18	0.59	0.5 U	0.5 U	2.47	0.5 U
CP-S6	upper	7/16/2002		1.24	0.72	0.5 U	0.5 U	2.76	0.5 U
CP-S6	upper	10/10/2002		1.18	0.76	0.5 U	0.5 U	2.98	0.5 U
CP-S6	upper	1/15/2003		1.15	0.69	0.5 U	0.5 U	2.65	0.5 U
CP-S6	upper	4/9/2003		1.06	0.87	0.5 U	0.5 U	3.02	0.5 U
CP-S6	upper	7/22/2003		0.96	0.7	0.5 U	0.5 U	2.38	0.5 U
CP-S6	upper	10/15/2003		0.5 U	0.91	0.5 U	0.5 U	2.22	0.5 U
CP-S6	upper	1/14/2004		0.96	0.57	0.5 U	0.5 U	2.16	0.5 U
CP-S6	upper	4/15/2004		0.91	0.7	0.5 U	0.5 U	2.11	0.5 U
CP-E1	lower	1/7/1999		24.3	35.8	23.6	1.08	112	6.84
CP-E1	lower	4/8/1999		34.3	36.4	14.39	1.04	173.1	6.6
CP-E1	lower	7/21/1999		27.65	35.1	17.17	1.21	121.7	6.73
CP-E1	lower	10/12/1999	*	28.613	36.209	16.819	1.239	137.764	7.603
CP-E1	lower	1/17/2000		29.487	42.87	12.505	1.098	141.56	7.511
CP-E1	lower	1/17/2000	*	29.343	39.329	12.524	1.212	146.65	8.059
CP-E1	lower	4/11/2000		28.66	51.05	14.511	1.069	137.44	7.681
CP-E1	lower	7/5/2000	*	30.3	39.4	15.3	1.06	119.2	6.94
CP-E1	lower	10/26/2000		32.6	47.2	10.91	1.16	133.1	7.64
CP-E1	lower	10/26/2000	*	31.7	47.9	10.78	1.25	129.5	7.91
CP-E1	lower	1/23/2001	*	29.4	40.6	8.52	1	123.5	7.02
CP-E1	lower	4/4/2001		23.9	34.6	3.93	0.98	96.1	6.57
CP-E1	lower	7/9/2001		24.7	35.2	4.74	0.85	102.8	6.07
CP-E1	lower	7/9/2001	*	25.2	35	4.71	0.5 U	103.3	6.16
CP-E1	lower	10/15/2001		22.8	34.6	3.72	0.89	99.1	6.08
CP-E1	lower	1/21/2002		19.87	32.1	4.26	0.8	89.7	5.65
CP-E1	lower	4/11/2002		18.84	31.1	2.79	0.79	78.7	5.36
CP-E1	lower	7/16/2002		18.07	29.3	3	0.81	69.7	5.32
CP-E1	lower	10/10/2002		19.38	32.2	1.23	0.83	82.1	5.57
CP-E1	lower	1/15/2003		18.79	32.92	1.18	0.78	52.7	5.79
CP-E1	lower	1/15/2003	*	19.14	32.76	1.29	0.78	79.2	5.8

TABLE A-2
COLBERT LANDFILL EXTRACTION WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CP-E1	lower	4/9/2003		18.36	34.8	1.44	0.82	77.9	5.86
CP-E1	lower	7/22/2003		17.99	31.3	1.96	0.76	73.1	5.77
CP-E1	lower	7/22/2003	*	17.86	31.61	2.1	0.8	71.7	5.68
CP-E1	lower	10/15/2003		16.44	29.48	2.04	0.75	73.8	5.35
CP-E1	lower	1/14/2004		16.47	29.4	2.06	0.72	64.9	5.11
CP-E1	lower	1/14/2004	*	16.43	30.32	2.08	0.77	71	5.21
CP-E1	lower	4/15/2004		14.74	24.42	1.08	0.67	68.6	4.58
CP-E2	lower	1/7/1999		47.6	122	1 U	1.17	192	138
CP-E2	lower	1/7/1999	*	49.3	125	1 U	1.15	202	145
CP-E2	lower	4/8/1999		46.4	79.6	1 U	1.08	197.6	134.4
CP-E2	lower	4/8/1999	*	52	96	1 U	1.1	226	152
CP-E2	lower	7/21/1999		41.7	96	1 U	1.56	187	125.2
CP-E2	lower	7/21/1999	*	42.7	95.9	1 U	1.06	190.4	129.7
CP-E2	lower	10/12/1999		40.145	100.685	1 U	1.066	196.394	148.808
CP-E2	lower	1/17/2000		47.277	91.13	1 U	1.219	208.2	142.54
CP-E2	lower	4/11/2000		46.65	141.55	0.5 U	1.207	229.13	140.27
CP-E2	lower	7/5/2000		40.5	93.3	0.62	0.5 U	180.1	118.4
CP-E2	lower	10/26/2000		54	172.6	1.19	1.29	313.1	163.3
CP-E2	lower	1/23/2001		47.7	109	0.71	1.03	224.7	143.6
CP-E2	lower	4/4/2001		40.9	99.9	0.5 U	1.09	179.7	125.8
CP-E2	lower	10/15/2001		45.1	112	1.18	1.04	190.2	143.2
CP-E2	lower	10/15/2001	*	41.7	104.4	1.22	1.05	178	132.9
CP-E2	lower	1/21/2002		39.1	98.7	0.5 U	1.09	171.9	128.6
CP-E2	lower	4/11/2002		37.3	89.9	0.5 U	0.97	144.1	118
CP-E2	lower	4/11/2002	*	39.9	98	0.5 U	1.04	157	127.1
CP-E2	lower	7/16/2002		38.8	93.1	0.5 U	1.04	143.2	121.3
CP-E2	lower	7/16/2002	*	38.2	95.4	0.5 U	1.04	143.9	120.3
CP-E2	lower	10/10/2002		40.1	99.5	0.5 U	1.04	166.4	120.9
CP-E2	lower	1/15/2003		42.16	82	0.5 U	1.1	139.5	108.2
CP-E2	lower	4/9/2003		45.31	143.3	0.5 U	1.18	244.3	137
CP-E2	lower	4/9/2003	*	46.02	144.8	0.5 U	1.19	243.9	138.6
CP-E2	lower	7/22/2003		37.39	96.2	0.5 U	0.99	139.6	119.7
CP-E2	lower	10/15/2003		35.5	114	0.5 U	1.03	162.9	135.7
CP-E2	lower	10/15/2003	*	35.49	110.1	0.5 U	1.04	155	131
CP-E2	lower	1/14/2004		37.94	98	0.5 U	1.01	129.2	114.4
CP-E2	lower	4/15/2004		37	95.9	0.5 U	0.9	153.2	120.5
CP-E2	lower	4/15/2004	*	32.9	86.3	0.5 U	0.97	136.2	108.3
CP-E3	lower	1/7/1999		7.99	31	1 U	0.5 U	177	1.41
CP-E3	lower	4/8/1999		7.69	20.6	1 U	0.5 U	162.4	1.42
CP-E3	lower	7/21/1999		5.76	18.27	1 U	0.5 U	131.7	0.97
CP-E3	lower	10/12/1999		5.461	15.325	1 U	0.5 U	110.134	1.144
CP-E3	lower	1/17/2000		5.705	22.138	1 U	0.5 U	117.29	1.191
CP-E3	lower	4/11/2000		4.707	20.808	0.5 U	0.5 U	99.16	0.917
CP-E3	lower	7/5/2000		5.18	17.53	0.5 U	0.5 U	94.3	1.26
CP-E3	lower	10/26/2000		5.38	19.41	0.5 U	0.5 U	98.1	1.33
CP-E3	lower	1/23/2001		5.59	16.59	0.98	0.5 U	94.8	1.28
CP-E3	lower	4/4/2001		4.5	15.18	0.5 U	0.5 U	81.5	1.15
CP-E3	lower	7/9/2001		4.42	15.95	0.76	0.5 U	89.7	0.86
CP-E3	lower	10/15/2001		4.16	13.82	0.5 U	0.5 U	83.4	1.01
CP-E3	lower	1/21/2002		4.35	14.84	0.5 U	0.5 U	79.8	1.06
CP-E3	lower	4/11/2002		4.27	14.28	0.5 U	0.5 U	75.7	0.87
CP-E3	lower	7/16/2002		4.16	14.17	0.5 U	0.5 U	70.5	0.91
CP-E3	lower	10/10/2002		4.25	15.22	0.5 U	0.5 U	77.8	0.95
CP-E3	lower	1/15/2003		3.96	15.39	0.5 U	0.5 U	45.2	0.95

TABLE A-2
COLBERT LANDFILL EXTRACTION WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CP-E3	lower	4/9/2003		3.86	17.66	0.5 U	0.5 U	64.5	0.9
CP-E3	lower	7/22/2003		3.87	16.86	0.5 U	0.5 U	56.2	0.93
CP-E3	lower	10/15/2003		3.57	15.22	0.5 U	0.5 U	65.4	0.9
CP-E3	lower	1/14/2004		3.7	14.28	0.5 U	0.5 U	57	1.08
CP-E3	lower	4/15/2004		3.23	10.59	0.5 U	0.5 U	52.5	0.9
CP-W1	lower	1/7/1999		1 U	1.84	1 U	0.5 U	20.16	0.5 U
CP-W1	lower	4/8/1999		1 U	1.59	1 U	0.5 U	22.9	0.5 U
CP-W1	lower	7/21/1999		1 U	1.72	1 U	0.5 U	20.73	0.5 U
CP-W1	lower	10/12/1999		1 U	2.146	1 U	0.5 U	18.671	0.5 U
CP-W1	lower	1/17/2000		1 U	3.156	1 U	0.5 U	21.604	0.5 U
CP-W1	lower	4/11/2000		0.5 U	2.521	0.5 U	0.5 U	16.531	0.5 U
CP-W1	lower	7/5/2000		0.5 U	1.67	0.5 U	0.5 U	12.4	0.5 U
CP-W1	lower	10/26/2000		0.5 U	2.51	0.5 U	0.5 U	13.97	0.5 U
CP-W1	lower	1/23/2001		0.5 U	1.97	0.5 U	0.5 U	13.03	0.5 U
CP-W1	lower	4/4/2001		0.5 U	1.81	0.5 U	0.5 U	10.81	0.5 U
CP-W1	lower	7/9/2001		0.5 U	1.91	0.5 U	0.5 U	10.77	0.5 U
CP-W1	lower	10/15/2001		0.5 U	1.94	0.5 U	0.5 U	11.22	0.5 U
CP-W1	lower	1/21/2002		0.5 U	2	0.5 U	0.5 U	11.1	0.5 U
CP-W1	lower	4/11/2002		0.5 U	1.78	0.5 U	0.5 U	9.46	0.5 U
CP-W1	lower	7/16/2002		0.5 U	1.7	0.5 U	0.5 U	8.51	0.5 U
CP-W1	lower	10/10/2002		0.5 U	2	0.5 U	0.5 U	10.56	0.5 U
CP-W1	lower	1/15/2003		0.5 U	2.26	0.5 U	0.5 U	10.59	0.5 U
CP-W1	lower	4/9/2003		0.5 U	2.24	0.5 U	0.5 U	9.93	0.5 U
CP-W1	lower	7/22/2003		0.5 U	2.26	0.5 U	0.5 U	11.04	0.5 U
CP-W1	lower	10/15/2003		0.5 U	2.35	0.5 U	0.5 U	9.26	0.5 U
CP-W1	lower	1/14/2004		0.5 U	2.2	0.5 U	0.5 U	7.89	0.5 U
CP-W1	lower	4/15/2004		0.5 U	1.79	0.5 U	0.5 U	7.13	0.5 U
CP-W2	lower	1/7/1999		10.2	44.6	4.32	0.5 U	139	1.48
CP-W2	lower	4/8/1999		9.17	27.4	2.61	0.5 U	128	1.93
CP-W2	lower	7/21/1999		8.57	31.9	2.2	0.5 U	127.8	1.93
CP-W2	lower	10/12/1999		8.946	24.253	2.102	0.5 U	141.924	2.593
CP-W2	lower	1/17/2000		9.705	36.32	1.876	0.5 U	149.35	3.567
CP-W2	lower	4/11/2000		8.136	37.52	1.523	0.5 U	126.81	3.218
CP-W2	lower	7/5/2000		7.57	30.8	1.23	0.5 U	101.4	2.98
CP-W2	lower	10/26/2000		8.91	42	1.02	0.5 U	136.9	4.23
CP-W2	lower	1/23/2001		8.16	35	0.75	0.5 U	124.8	4.34
CP-W2	lower	4/4/2001		7.92	33.1	0.76	0.5 U	104.2	4.69
CP-W2	lower	4/4/2001	*	7.74	31.2	0.75	0.5 U	98.9	4.56
CP-W2	lower	7/9/2001		8.03	32.5	0.65	0.5 U	111.9	4.78
CP-W2	lower	10/15/2001		5.21	25.3	0.5 U	0.5 U	71.1	2.93
CP-W2	lower	1/21/2002		4.08	17.58	0.5 U	0.5 U	58.8	2.35
CP-W2	lower	4/11/2002		3.97	17.21	0.5 U	0.5 U	48.4	2.25
CP-W2	lower	7/16/2002		4.33	19.64	0.5 U	0.5 U	57.5	2.57
CP-W2	lower	10/10/2002		4.96	25	0.5 U	0.5 U	71.2	3.03
CP-W2	lower	10/10/2002	*	4.95	25.5	0.5 U	0.5 U	73.1	3.03
CP-W2	lower	1/15/2003		5.14	28.1	0.5 U	0.5 U	70.2	3.69
CP-W2	lower	4/9/2003		5.92	29.64	0.64	0.5 U	72.9	4.59
CP-W2	lower	7/22/2003		4.57	21.86	0.5 U	0.5 U	55.7	3.78
CP-W2	lower	10/15/2003		3.77	18.48	0.5 U	0.5 U	46.54	3.21
CP-W2	lower	1/14/2004		3.53	17.2	0.5 U	0.5 U	42.02	2.94
CP-W2	lower	4/15/2004		3.11	13.71	0.5 U	0.5 U	44.2	2.54
CP-W3	lower	36167		8.15	48.2	1 U	0.5 U	136	16.34
CP-W3	lower	36258		7.73	29.8	1 U	0.5 U	128	15.15
CP-W3	lower	36362		5.93	24.88	1 U	0.5 U	102.3	13.3

TABLE A-2
COLBERT LANDFILL EXTRACTION WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CP-W3	lower	36445		5.963	26.784	1 U	0.5 U	103.581	13.924
CP-W3	lower	36542		6.221	27.771	1 U	0.5 U	103.5	15.157
CP-W3	lower	36627		6.955	33.33	0.5 U	0.5 U	111.33	14.511
CP-W3	lower	36712		6.29	27.7	0.5 U	0.5 U	97.8	13.01
CP-W3	lower	36825		6.44	28.7	0.5 U	0.5 U	98.8	14.55
CP-W3	lower	36914		6.26	30.2	0.5 U	0.5 U	115.1	14.85
CP-W3	lower	36985		6	23.7	0.5 U	0.5 U	82.8	13.65
CP-W3	lower	37081		4.22	15.45	0.5 U	0.5 U	76.8	11.41
CP-W3	lower	37179		7.56	30.3	0.5 U	0.5 U	109	15.4
CP-W3	lower	37277		8.54	39.6	0.5 U	0.5 U	135.6	16.8
CP-W3	lower	37277	*	8.58	36.5	0.5 U	0.5 U	124.1	16.17
CP-W3	lower	37357		7.2	32.9	0.5 U	0.5 U	98.7	13.69
CP-W3	lower	37453		6.01	25	0.5 U	0.5 U	71.7	13.18
CP-W3	lower	37539		6.01	27.1	0.5 U	0.5 U	85.1	14.03
CP-W3	lower	37636		5.69	25.5	0.5 U	0.5 U	77.1	13.13
CP-W3	lower	37720		5.05	24.8	0.5 U	0.5 U	65.5	13.05
CP-W3	lower	37824		5.32	26.91	0.5 U	0.5 U	48.1	14.07
CP-W3	lower	37909		5.74	26.63	0.5 U	0.5 U	68.7	14.58
CP-W3	lower	38000		6.43	26.84	0.5 U	0.5 U	76.7	14.76
CP-W3	lower	38092		5.4	18.9	0.5 U	0.5 U	59.3	12.34

TABLE A-3
COLBERT LANDFILL MFS MONITORING WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	Duplicate	DCA	DCE	MC	PCE	TCA	TCE
CD-03A1	upper	1/6/1999		1 U	1 U	1 U	0.5 U	2 U	0.5 U
CD-03A1	upper	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	5.245	0.5 U
CD-03A1	upper	4/3/2001	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CD-03A1	upper	4/9/2002		0.5 U	0.5 U	0.5 U	0.5 U	1.53	0.5 U
CD-03A1	upper	4/8/2003		0.5 U	0.5 U	0.5 U	0.5 U	1.86	0.5 U
CD-03A1	upper	4/8/2003	*	0.5 U	0.5 U	0.5 U	0.5 U	1.92	0.5 U
CD-03A1	upper	4/14/2004		0.5 U	0.5 U	0.5 U	0.5 U	2.51	0.5 U
CD-60A1	upper	1/13/1999		1 U	1 U	1 U	0.59	2.37	0.81
CD-60A1	upper	4/11/2000		0.5 U	0.5 U	0.5 U	0.684	0.734	0.554
CD-60A1	upper	4/3/2001		0.5 U	0.5 U	0.5 U	0.5 U	1.34	0.77
CD-60A1	upper	4/9/2002		0.5 U	0.5 U	0.5 U	0.75	0.58	0.68
CD-60A1	upper	4/10/2003		0.5 U	0.5 U	0.5 U	0.94	0.72	0.81
CD-60A1	upper	4/14/2004		0.5 U	0.5 U	0.5 U	0.65	0.71	0.66
CD-60A1	upper	4/14/2004	*	0.5 U	0.5 U	0.5 U	0.7	0.8	0.7
CD-61A1	upper	1/13/1999		1 U	1.44	1 U	0.5 U	27.89	0.5 U
CD-61A1	upper	4/11/2000		0.5 U	0.5 U	0.5 U	0.5 U	20.946	0.5 U
CD-61A1	upper	4/3/2001		0.5 U	1.13	0.5 U	0.5 U	25.3	0.5 U
CD-61A1	upper	4/9/2002	*	0.5 U	0.76	0.5 U	0.5 U	12.6	0.5 U
CD-61A1	upper	4/8/2003		0.5 U	0.87	0.5 U	0.5 U	14.89	0.5 U
CD-61A1	upper	4/14/2004		0.5 U	0.82	0.5 U	0.5 U	14.7	0.5 U
CS-04A1	upper	1/6/1999		9.97	1.64	1 U	0.5 U	3.37	1.6
CS-04A1	upper	4/11/2000		3.452	0.5 U	0.5 U	0.5 U	1.125	1.069
CS-04A1	upper	4/3/2001		5	0.5 U	0.5 U	0.5 U	1.67	1.44
CS-04A1	upper	4/10/2002		3.69	0.5 U	0.5 U	0.5 U	0.84	1.14
CS-04A1	upper	4/8/2003		3.58	0.5 U	0.5 U	0.5 U	0.83	1.31
CS-04A1	upper	4/14/2004		3.3	0.5 U	0.5 U	0.5 U	0.86	1.07

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
0273C-3	lower	10/19/1999	ND	ND	ND	ND	ND	ND
0273C-3	lower	10/15/2001	ND	ND	ND	ND	ND	ND
0273C-3	lower	10/9/2002	ND	ND	ND	ND	ND	ND
0273C-3	lower	10/13/2003	ND	ND	ND	ND	ND	ND
0273C-4	lower	2/9/1999	ND	ND	ND	ND	ND	ND
0273C-4	lower	2/29/2000	ND	ND	ND	ND	ND	ND
0273C-4	lower	2/5/2001	ND	ND	ND	ND	ND	ND
0273C-4	lower	2/19/2002	ND	ND	ND	ND	ND	ND
0273C-4	lower	2/6/2003	ND	ND	ND	ND	ND	ND
0273C-4	lower	2/10/2004	ND	ND	ND	ND	ND	ND
0273C-5	lower	7/8/1999	ND	ND	ND	ND	ND	ND
0273D-6	lower	2/9/1999	ND	ND	ND	ND	ND	ND
0273D-6	lower	8/17/1999	ND	ND	ND	ND	ND	ND
0273D-6	lower	2/28/2000	ND	ND	ND	ND	ND	ND
0273D-6	lower	8/23/2000	ND	ND	ND	ND	ND	ND
0273D-6	lower	2/5/2001	ND	ND	ND	ND	ND	ND
0273D-6	lower	8/6/2001	ND	ND	ND	ND	ND	ND
0273D-6	lower	2/20/2002	ND	ND	ND	ND	ND	ND
0273D-6	lower	7/9/2002	ND	ND	ND	ND	ND	ND
0273D-6	lower	2/5/2003	ND	ND	ND	ND	ND	ND
0273D-6	lower	8/12/2003	ND	ND	ND	ND	ND	ND
0273D-6	lower	2/10/2004	ND	ND	ND	ND	ND	ND
0273F-2	lower	3/2/1999	ND	ND	ND	ND	ND	ND
0273F-2	lower	9/22/1999	ND	ND	ND	ND	ND	ND
0273F-2	lower	3/20/2000	ND	ND	ND	ND	ND	ND
0273F-2	lower	9/13/2000	ND	ND	ND	ND	ND	ND
0273F-2	lower	3/6/2001	ND	ND	ND	ND	ND	ND
0273F-2	lower	9/24/2001	ND	ND	ND	ND	ND	ND
0273F-2	lower	2/20/2002	ND	ND	ND	ND	ND	ND
0273F-2	lower	7/9/2002	ND	ND	ND	ND	ND	ND
0273F-2	lower	3/10/2003	ND	ND	ND	ND	ND	ND
0273F-2	lower	9/9/2003	ND	ND	ND	ND	ND	ND
0273F-4	lower	12/15/1999	ND	ND	ND	ND	ND	ND
0273F-4	lower	12/28/2000	ND	ND	ND	ND	ND	ND
0273F-4	lower	11/27/2001	ND	ND	ND	ND	ND	ND
0273F-4	lower	12/10/2002	ND	ND	ND	ND	ND	ND
0273F-4	lower	12/10/2003	ND	ND	ND	ND	ND	ND
0273Q-1	lower	6/17/2003	ND	ND	ND	ND	ND	ND
0373A-1	lower	2/11/1999	3.3	ND	ND	ND	ND	ND
0373A-1	lower	10/19/1999	2.69	ND	ND	ND	ND	ND
0373A-1	lower	2/29/2000	2.47	ND	ND	ND	ND	ND
0373A-1	lower	5/9/2000	2.5	ND	ND	ND	ND	ND
0373A-1	lower	3/5/2001	1.86	ND	ND	ND	ND	ND
0373A-1	lower	5/22/2001	1.7	ND	ND	ND	ND	ND
0373A-1	lower	7/10/2001	1.93	ND	ND	ND	ND	ND
0373A-1	lower	11/27/2001	1.34	ND	ND	ND	ND	ND
0373A-1	lower	2/19/2002	1.35	ND	ND	ND	ND	ND
0373A-1	lower	4/11/2002	1.24	ND	ND	ND	ND	ND
0373A-1	lower	7/9/2002	1.57	ND	ND	ND	ND	ND
0373A-1	lower	1/14/2003	1.61	ND	ND	ND	ND	ND
0373A-1	lower	7/22/2003	1.34	ND	ND	ND	ND	ND
0373A-1	lower	10/14/2003	1.3	ND	ND	ND	ND	ND
0373A-2	lower	3/4/1999	4.71	ND	ND	ND	ND	ND
0373A-2	lower	6/3/1999	3.48	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
0373A-2	lower	9/22/1999	3.49	ND	ND	ND	ND	ND
0373A-2	lower	12/15/1999	3.34	ND	ND	ND	ND	ND
0373A-2	lower	3/21/2000	2.97	ND	ND	ND	ND	ND
0373A-2	lower	6/22/2000	3.49	ND	ND	ND	ND	ND
0373A-2	lower	9/14/2000	3.07	ND	ND	ND	ND	ND
0373A-2	lower	12/28/2000	2.28	ND	ND	ND	ND	ND
0373A-2	lower	3/7/2001	1.89	ND	ND	ND	ND	ND
0373A-2	lower	6/13/2001	2.38	ND	ND	ND	ND	ND
0373A-2	lower	9/24/2001	2.29	ND	ND	ND	ND	ND
0373A-2	lower	11/27/2001	2.43	ND	ND	ND	ND	ND
0373A-2	lower	2/20/2002	2.19	ND	ND	ND	ND	ND
0373A-2	lower	4/10/2002	1.94	ND	ND	ND	ND	ND
0373A-2	lower	7/9/2002	2.07	ND	ND	ND	ND	ND
0373A-2	lower	9/17/2002	1.84	ND	ND	ND	ND	ND
0373A-2	lower	12/11/2002	1.91	ND	ND	ND	ND	ND
0373A-2	lower	3/10/2003	2.01	ND	ND	ND	ND	ND
0373A-2	lower	6/17/2003	1.54	ND	ND	ND	ND	ND
0373A-2	lower	9/9/2003	1.88	ND	ND	ND	ND	ND
0373A-2	lower	12/9/2003	1.68	ND	ND	ND	ND	ND
0373A-2	lower	3/10/2004	1.68	ND	ND	ND	ND	ND
0373A-4	lower	2/11/1999	2.05	ND	ND	ND	ND	ND
0373A-4	lower	5/17/1999	2.23	ND	ND	ND	ND	ND
0373A-4	lower	9/22/1999	1.76	ND	ND	ND	ND	ND
0373A-4	lower	11/16/1999	1.36	ND	ND	ND	ND	ND
0373A-4	lower	2/28/2000	1.47	ND	ND	ND	ND	ND
0373A-4	lower	5/9/2000	1.63	ND	ND	ND	ND	ND
0373A-4	lower	8/23/2000	2.06	ND	ND	ND	ND	ND
0373A-4	lower	2/5/2001	1.35	ND	ND	ND	ND	ND
0373A-4	lower	5/21/2001	1.22	ND	ND	ND	ND	ND
0373A-4	lower	8/6/2001	1.56	ND	ND	ND	ND	ND
0373A-4	lower	10/15/2001	1.38	ND	ND	ND	ND	ND
0373A-4	lower	2/19/2002	1.27	ND	ND	ND	ND	ND
0373A-4	lower	7/9/2002	1.31	ND	ND	ND	ND	ND
0373A-4	lower	11/12/2002	1.07	ND	ND	ND	ND	ND
0373A-4	lower	2/6/2003	0.93	ND	ND	ND	ND	ND
0373A-4	lower	5/15/2003	0.99	ND	ND	ND	ND	ND
0373A-4	lower	8/12/2003	1.2	ND	ND	ND	ND	ND
0373A-4	lower	11/13/2003	0.98	ND	ND	ND	ND	ND
0373L-1	upper	3/3/1999	1.07	ND	ND	ND	ND	ND
0373L-1	upper	6/3/1999	0.73	ND	ND	ND	ND	ND
0373L-1	upper	9/21/1999	0.65	ND	ND	ND	ND	ND
0373L-1	upper	11/15/1999	0.64	ND	ND	ND	ND	ND
0373L-1	upper	3/21/2000	0.77	ND	ND	ND	ND	ND
0373L-1	upper	5/8/2000	0.68	ND	ND	ND	ND	ND
0373L-1	upper	9/13/2000	0.58	ND	ND	ND	ND	ND
0373L-1	upper	11/27/2000	0.63	ND	ND	ND	ND	ND
0373L-1	upper	2/6/2001	0.65	ND	ND	ND	ND	ND
0373L-1	upper	5/21/2001	1.31	ND	ND	ND	ND	ND
0373L-1	upper	8/7/2001	ND	ND	ND	ND	ND	ND
0373L-1	upper	10/16/2001	ND	ND	ND	ND	ND	ND
0373L-1	upper	2/19/2002	ND	ND	ND	ND	ND	ND
0373L-1	upper	4/9/2002	ND	ND	ND	ND	ND	ND
0373L-1	upper	8/15/2002	ND	ND	ND	ND	ND	ND
0373L-1	upper	11/12/2002	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
0373L-1	upper	2/5/2003	ND	ND	ND	ND	ND	ND
0373L-1	upper	5/14/2003	0.54	ND	ND	ND	ND	ND
0373L-1	upper	8/13/2003	ND	ND	ND	ND	ND	ND
0373L-1	upper	11/12/2003	ND	ND	ND	ND	ND	ND
0373L-1	upper	2/10/2004	ND	ND	ND	ND	ND	ND
1073D-1	upper	2/10/1999	19.1	2.82	ND	ND	ND	ND
1073D-1	upper	5/17/1999	23.4	3.81	ND	ND	ND	ND
1073D-1	upper	8/18/1999	21.42	3.27	ND	ND	ND	ND
1073D-1	upper	5/8/2000	14.71	2.62	ND	ND	ND	ND
1073D-1	upper	8/23/2000	15.92	3.37	0.66	ND	ND	ND
1073D-1	upper	2/6/2001	12.74	3.19	0.54	ND	ND	ND
1073D-1	upper	5/21/2001	11.49	3.47	0.64	ND	ND	ND
1073D-1	upper	8/7/2001	9.99	2.87	ND	ND	ND	ND
1073D-1	upper	10/15/2001	8.82	2.03	ND	ND	ND	ND
1073D-1	upper	2/19/2002	7.82	2.23	ND	ND	ND	ND
1073D-1	upper	4/9/2002	7.12	1.89	ND	ND	ND	ND
1073D-1	upper	8/15/2002	6.29	2.17	0.51	ND	ND	ND
1073D-1	upper	2/5/2003	8.48	1.96	0.63	ND	ND	ND
1073D-1	upper	5/14/2003	6.69	1.77	0.61	ND	ND	ND
1073D-1	upper	8/13/2003	5.72	2.01	0.66	ND	ND	ND
1073D-1	upper	11/12/2003	5.32	1.55	0.53	ND	ND	ND
1073D-1	upper	2/10/2004	4.4	1.42	ND	ND	ND	ND
1073D-2	upper	1/21/1999	23.3	5.69	1.64	ND	ND	ND
1073D-2	upper	5/18/1999	25.95	6.88	1.72	ND	ND	ND
1073D-2	upper	7/8/1999	25.33	7.42	1.93	ND	ND	ND
1073D-2	upper	11/15/1999	17.8	4.95	1.26	ND	ND	ND
1073D-2	upper	1/25/2000	19.01	5.11	1.42	ND	ND	ND
1073D-2	upper	4/24/2000	21	6.75	2.23	ND	ND	ND
1073D-2	upper	7/18/2000	18.86	7.14	2.45	ND	ND	ND
1073D-2	upper	10/19/2000	16.72	5.38	1.49	ND	ND	ND
1073D-2	upper	1/9/2001	14.09	5.21	1.38	ND	ND	ND
1073D-2	upper	4/24/2001	13.04	5.27	1.63	ND	ND	ND
1073D-2	upper	7/10/2001	13.3	6.03	2.01	ND	ND	ND
1073D-2	upper	10/15/2001	11.51	4.9	1.53	ND	ND	ND
1073D-2	upper	2/19/2002	9.76	4.54	1.51	ND	ND	ND
1073D-2	upper	4/8/2002	10.17	5.46	2.09	ND	ND	ND
1073D-2	upper	7/10/2002	9.08	5.26	2.12	ND	ND	ND
1073D-2	upper	10/9/2002	9.72	4.87	2.29	ND	ND	ND
1073D-2	upper	1/13/2003	9.36	4.03	2.02	ND	ND	ND
1073D-2	upper	5/14/2003	8.15	4.57	2.17	ND	ND	ND
1073D-2	upper	7/21/2003	7.65	4.46	2.27	ND	ND	ND
1073D-2	upper	10/13/2003	6.61	4.04	1.94	ND	ND	ND
1073D-2	upper	1/12/2004	5.79	3.58	1.57	ND	ND	ND
1073D-2	upper	4/19/2004	5.62	3.62	1.59	ND	ND	ND
1073E-2	upper	1/21/1999	ND	ND	ND	ND	ND	ND
1073E-2	upper	7/7/1999	ND	ND	ND	ND	ND	ND
1073E-2	upper	1/25/2000	ND	ND	ND	ND	ND	ND
1073E-2	upper	7/18/2000	ND	ND	ND	ND	ND	ND
1073E-2	upper	1/8/2001	ND	ND	ND	ND	ND	ND
1073E-2	upper	7/10/2001	ND	ND	ND	ND	ND	ND
1073E-2	upper	1/21/2002	ND	ND	ND	ND	ND	ND
1073E-2	upper	7/10/2002	ND	ND	ND	ND	ND	ND
1073E-2	upper	1/13/2003	ND	ND	ND	ND	ND	ND
1073E-2	upper	7/21/2003	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1073E-2	upper	1/12/2004	ND	ND	ND	ND	ND	ND
1073E-3	upper	4/21/1999	ND	ND	ND	ND	ND	ND
1073E-3	upper	10/19/1999	ND	ND	ND	ND	ND	ND
1073E-3	upper	4/25/2000	ND	ND	ND	ND	ND	ND
1073E-3	upper	10/19/2000	ND	ND	ND	ND	ND	ND
1073E-3	upper	4/24/2001	ND	ND	ND	ND	ND	ND
1073E-3	upper	10/15/2001	ND	ND	ND	ND	ND	ND
1073E-3	upper	4/8/2002	ND	ND	ND	ND	ND	ND
1073E-3	upper	11/12/2002	ND	ND	ND	ND	ND	ND
1073E-3	upper	4/9/2003	ND	ND	ND	ND	ND	ND
1073E-3	upper	10/13/2003	ND	ND	ND	ND	ND	ND
1073E-3	upper	4/19/2004	ND	ND	ND	ND	ND	ND
1073G-1	lower	1/21/1999	ND	ND	ND	ND	ND	ND
1073G-1	lower	7/7/1999	ND	ND	ND	ND	ND	ND
1073G-1	lower	1/24/2000	ND	ND	ND	ND	ND	ND
1073G-1	lower	7/18/2000	ND	ND	ND	ND	ND	ND
1073G-1	lower	1/9/2001	ND	ND	ND	ND	ND	ND
1073G-1	lower	7/10/2001	ND	ND	ND	ND	ND	ND
1073G-1	lower	1/21/2002	ND	ND	ND	ND	ND	ND
1073G-1	lower	7/10/2002	ND	ND	ND	ND	ND	ND
1073G-1	lower	1/14/2003	ND	ND	ND	ND	ND	ND
1073G-1	lower	7/21/2003	ND	ND	ND	ND	ND	ND
1073G-1	lower	1/12/2004	ND	ND	ND	ND	ND	ND
1073J-1	lower	1/21/1999	8.66	ND	ND	ND	ND	ND
1073J-1	lower	4/22/1999	7.7	ND	ND	ND	ND	ND
1073J-1	lower	7/7/1999	8.21	ND	ND	ND	ND	ND
1073J-1	lower	10/20/1999	8.13	ND	ND	ND	ND	ND
1073J-1	lower	1/24/2000	8.15	ND	ND	ND	ND	ND
1073J-1	lower	4/25/2000	8.12	ND	ND	ND	ND	ND
1073J-1	lower	7/17/2000	7.42	ND	ND	ND	ND	ND
1073J-1	lower	10/18/2000	8.94	ND	ND	ND	ND	ND
1073J-1	lower	1/9/2001	7.71	ND	ND	ND	ND	ND
1073J-1	lower	4/24/2001	7.41	ND	ND	ND	ND	ND
1073J-1	lower	7/10/2001	5.96	ND	ND	ND	ND	ND
1073J-1	lower	10/15/2001	6.58	ND	ND	ND	ND	ND
1073J-1	lower	1/22/2002	6.2	ND	ND	ND	ND	ND
1073J-1	lower	4/8/2002	5.64	ND	ND	ND	ND	ND
1073J-1	lower	7/10/2002	4.34	ND	ND	ND	ND	ND
1073J-1	lower	11/13/2002	5.41	ND	ND	ND	ND	ND
1073J-1	lower	1/14/2003	5.93	ND	ND	ND	ND	ND
1073J-1	lower	4/10/2003	5.16	ND	ND	ND	ND	ND
1073J-1	lower	7/22/2003	3.87	ND	ND	ND	ND	ND
1073J-1	lower	10/14/2003	4.62	ND	ND	ND	ND	ND
1073J-1	lower	1/13/2004	4.31	ND	ND	ND	ND	ND
1073J-1	lower	4/20/2004	3.88	ND	ND	ND	ND	ND
1073J-2	lower	3/2/1999	0.91	ND	ND	ND	ND	ND
1073J-2	lower	5/18/1999	3.28	ND	ND	ND	ND	ND
1073J-2	lower	8/17/1999	4.45	ND	ND	ND	ND	ND
1073J-2	lower	11/15/1999	2.83	ND	ND	ND	ND	ND
1073J-2	lower	2/29/2000	3.4	ND	ND	ND	ND	ND
1073J-2	lower	5/9/2000	2.49	ND	ND	ND	ND	ND
1073J-2	lower	36762	2.85	ND	ND	ND	ND	ND
1073J-2	lower	36858	2.13	ND	ND	ND	ND	ND
1073J-2	lower	36927	2.08	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1073J-2	lower	37032	0.97	ND	ND	ND	ND	ND
1073J-2	lower	37110	2.37	ND	ND	ND	ND	ND
1073J-2	lower	37179	0.61	ND	ND	ND	ND	ND
1073J-2	lower	37307	ND	ND	ND	ND	ND	ND
1073J-2	lower	37355	0.61	ND	ND	ND	ND	ND
1073J-2	lower	37446	1.56	ND	ND	ND	ND	ND
1073J-2	lower	37572	1.23	ND	ND	ND	ND	ND
1073J-2	lower	37657	1	ND	ND	ND	ND	ND
1073J-2	lower	37755	1.01	ND	ND	ND	ND	ND
1073J-2	lower	37845	1.6	ND	ND	ND	ND	ND
1073J-2	lower	37937	1.29	ND	0.73	ND	ND	ND
1073J-2	lower	38027	0.8	ND	ND	ND	ND	ND
1073L-1	upper	36222	1.98	ND	ND	ND	ND	ND
1073L-1	upper	36314	0.77	ND	ND	ND	ND	ND
1073L-1	upper	36424	0.57	ND	ND	ND	ND	ND
1073L-1	upper	36508	ND	ND	ND	ND	ND	ND
1073L-1	upper	36606	0.98	ND	ND	ND	ND	ND
1073L-1	upper	36699	0.84	ND	ND	ND	ND	ND
1073L-1	upper	36783	ND	ND	ND	ND	ND	ND
1073L-1	upper	36955	ND	ND	ND	ND	ND	ND
1073L-1	upper	37055	ND	ND	ND	ND	ND	ND
1073L-1	upper	37158	ND	ND	ND	ND	ND	ND
1073L-1	upper	37222	ND	ND	ND	ND	ND	ND
1073L-1	upper	37307	ND	ND	ND	ND	ND	ND
1073L-1	upper	37356	ND	ND	ND	ND	ND	ND
1073L-1	upper	37516	ND	ND	ND	ND	ND	ND
1073L-1	upper	37691	ND	ND	ND	ND	ND	ND
1073L-1	upper	37874	ND	ND	ND	ND	ND	ND
1073L-1	upper	38055	ND	ND	ND	ND	ND	ND
1073L-2	upper	36202	ND	ND	ND	ND	ND	ND
1073L-2	upper	36585	ND	ND	ND	ND	ND	ND
1073L-2	upper	36955	ND	ND	ND	ND	ND	ND
1073L-2	upper	37307	ND	ND	ND	ND	ND	ND
1073L-2	upper	37691	ND	ND	ND	ND	ND	ND
1073L-2	upper	38055	ND	ND	ND	ND	ND	ND
1073L-3	upper	36313	ND	ND	ND	ND	ND	ND
1073L-3	upper	36699	ND	ND	ND	ND	ND	ND
1073L-3	upper	37055	ND	ND	ND	ND	ND	ND
1073L-3	upper	37356	ND	ND	ND	ND	ND	ND
1073L-3	upper	37516	ND	ND	ND	ND	ND	ND
1073L-3	upper	37874	ND	ND	ND	ND	ND	ND
1073L-4	lower	36222	ND	ND	ND	ND	ND	ND
1073L-4	lower	36606	ND	ND	ND	ND	ND	ND
1073L-4	lower	36817	ND	ND	ND	ND	ND	ND
1073L-4	lower	36956	ND	ND	ND	ND	ND	ND
1073L-4	lower	37158	ND	ND	ND	ND	ND	ND
1073L-4	lower	37307	ND	ND	ND	ND	ND	ND
1073L-4	lower	37446	ND	ND	ND	ND	ND	ND
1073L-4	lower	37690	ND	ND	ND	ND	ND	ND
1073L-4	lower	37874	ND	ND	ND	ND	ND	ND
1073L-4	lower	38054	ND	ND	ND	ND	ND	ND
1073M-1	upper	36222	ND	ND	ND	ND	ND	ND
1073M-1	upper	36606	ND	ND	ND	ND	ND	ND
1073M-1	upper	36955	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1073M-1	upper	37307	ND	ND	ND	ND	ND	ND
1073M-1	upper	37691	ND	ND	ND	ND	ND	ND
1073M-1	upper	38055	ND	ND	ND	ND	ND	ND
1073M-2	upper	36202	ND	ND	ND	ND	ND	ND
1073M-2	upper	36585	ND	ND	ND	ND	ND	ND
1073M-2	upper	36928	ND	ND	ND	ND	ND	ND
1073M-2	upper	37307	ND	ND	ND	ND	ND	ND
1073M-3	upper	36424	ND	ND	ND	ND	ND	ND
1073M-3	upper	36783	ND	ND	ND	ND	ND	ND
1073M-3	upper	37158	ND	ND	ND	ND	ND	ND
1073M-3	upper	37516	ND	ND	ND	ND	ND	ND
1073M-3	upper	37874	ND	ND	ND	ND	ND	ND
1073M-4	upper	36453	ND	ND	ND	ND	ND	ND
1073M-4	upper	36818	ND	ND	ND	ND	ND	ND
1073M-5	upper	36313	ND	ND	ND	ND	ND	ND
1073M-5	upper	37055	ND	ND	ND	ND	ND	ND
1073M-5	upper	37447	ND	ND	ND	ND	ND	ND
1073N-1	lower	36222	ND	ND	ND	ND	ND	ND
1073N-1	lower	36606	ND	ND	ND	ND	ND	ND
1073N-1	lower	36955	ND	ND	ND	ND	ND	ND
1073P-1	upper	36180	1.32	ND	ND	ND	ND	ND
1073P-1	upper	36271	0.91	ND	ND	ND	ND	ND
1073P-1	upper	36348	0.87	ND	ND	ND	ND	ND
1073P-1	upper	36452	0.78	ND	ND	ND	ND	ND
1073P-1	upper	36550	0.84	ND	ND	ND	ND	ND
1073P-1	upper	36641	0.63	ND	ND	ND	ND	ND
1073P-1	upper	36725	0.72	ND	ND	ND	ND	ND
1073P-1	upper	36818	0.52	ND	ND	ND	ND	ND
1073P-1	upper	36900	0.59	ND	ND	ND	ND	ND
1073P-1	upper	37005	ND	ND	ND	ND	ND	ND
1073P-1	upper	37082	ND	ND	ND	ND	ND	ND
1073P-1	upper	37179	ND	ND	ND	ND	ND	ND
1073P-1	upper	37277	ND	ND	ND	ND	ND	ND
1073P-1	upper	37354	ND	ND	ND	ND	ND	ND
1073P-1	upper	37538	ND	ND	ND	ND	ND	ND
1073P-1	upper	37720	ND	ND	ND	ND	ND	ND
1073P-1	upper	37823	ND	ND	ND	ND	ND	ND
1073P-1	upper	37907	ND	ND	ND	ND	ND	ND
1073P-1	upper	37998	ND	ND	ND	ND	ND	ND
1073P-1	upper	38096	ND	ND	ND	ND	ND	ND
1073P-2	upper	36201	ND	ND	ND	ND	ND	ND
1073P-2	upper	36390	ND	ND	ND	ND	ND	ND
1073P-2	upper	36817	ND	ND	ND	ND	ND	ND
1073P-2	upper	36928	ND	ND	ND	ND	ND	ND
1073P-2	upper	37109	ND	ND	ND	ND	ND	ND
1073P-2	upper	37306	ND	ND	ND	ND	ND	ND
1073P-2	upper	37483	ND	ND	ND	ND	ND	ND
1073P-2	upper	37657	ND	ND	ND	ND	ND	ND
1073P-2	upper	37846	ND	ND	ND	ND	ND	ND
1073P-2	upper	38027	ND	ND	ND	ND	ND	ND
1073Q-4	lower	36271	ND	ND	ND	ND	ND	ND
1073Q-4	lower	36314	1.34	ND	ND	ND	ND	ND
1073Q-4	lower	36425	0.94	ND	ND	ND	ND	ND
1073Q-4	lower	36509	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1073Q-4	lower	36605	ND	ND	ND	ND	ND	ND
1073Q-4	lower	36699	0.9	ND	ND	ND	ND	ND
1073Q-4	lower	36783	0.59	ND	ND	ND	ND	ND
1073Q-4	lower	36888	ND	ND	ND	ND	ND	ND
1073Q-4	lower	36956	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37055	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37158	0.5	ND	ND	ND	ND	ND
1073Q-4	lower	37222	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37307	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37357	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37447	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37516	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37600	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37690	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37789	ND	ND	ND	ND	ND	ND
1073Q-4	lower	37873	0.61	ND	ND	ND	ND	ND
1073Q-4	lower	37964	0.61	ND	ND	ND	ND	ND
1073Q-4	lower	38054	0.84	ND	ND	ND	ND	ND
1173B-1		36508	ND	ND	ND	ND	ND	ND
1173B-1		36888	ND	ND	ND	ND	ND	ND
1173B-1		37222	ND	ND	ND	ND	ND	ND
1173B-1		37600	ND	ND	ND	ND	ND	ND
1173B-1		37965	ND	ND	ND	ND	ND	ND
1473C-3	lower	36222	ND	ND	ND	ND	ND	ND
1473C-3	lower	36605	ND	ND	ND	ND	ND	ND
1473C-3	lower	36956	ND	ND	ND	ND	ND	ND
1473C-3	lower	37447	ND	ND	ND	ND	ND	ND
1473C-3	lower	37690	ND	ND	ND	ND	ND	ND
1473C-3	lower	38056	ND	ND	ND	ND	ND	ND
1473C-4	lower	36314	ND	ND	ND	ND	ND	ND
1473C-4	lower	37055	ND	ND	ND	ND	ND	ND
1473C-4	lower	37790	ND	ND	ND	ND	ND	ND
1473C-5	lower	36389	ND	ND	ND	ND	ND	ND
1473C-5	lower	36762	ND	ND	ND	ND	ND	ND
1473C-5	lower	37109	ND	ND	ND	ND	ND	ND
1473C-5	lower	37446	ND	ND	ND	ND	ND	ND
1473C-5	lower	37845	ND	ND	ND	ND	ND	ND
1473D-1	lower	36605	ND	ND	ND	ND	ND	ND
1473D-1	lower	36928	ND	ND	ND	ND	ND	ND
1473D-1	lower	37306	ND	ND	ND	ND	ND	ND
1473D-1	lower	37658	ND	ND	ND	ND	ND	ND
1473D-1	lower	38027	ND	ND	ND	ND	ND	ND
1473D-2	upper	36202	ND	ND	ND	ND	ND	ND
1473D-2	upper	36298	ND	ND	ND	ND	ND	ND
1473D-2	upper	36390	ND	ND	ND	ND	ND	ND
1473D-2	upper	36480	ND	ND	ND	ND	ND	ND
1473D-2	upper	36584	ND	ND	ND	ND	ND	ND
1473D-2	upper	36655	ND	ND	ND	ND	ND	ND
1473D-2	upper	36762	ND	ND	ND	ND	ND	ND
1473D-2	upper	36858	ND	ND	ND	ND	ND	ND
1473D-2	upper	36927	ND	ND	ND	ND	ND	ND
1473D-2	upper	37032	ND	ND	ND	ND	ND	ND
1473D-2	upper	37109	ND	ND	ND	ND	ND	ND
1473D-2	upper	37179	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1473D-2	upper	37306	ND	ND	ND	ND	ND	ND
1473D-2	upper	37355	ND	ND	ND	ND	ND	ND
1473D-2	upper	37572	ND	ND	ND	ND	ND	ND
1473D-2	upper	37790	ND	ND	ND	ND	ND	ND
1473D-2	upper	37965	ND	ND	ND	ND	ND	ND
1473M-1	upper	36180	ND	ND	ND	ND	ND	ND
1473M-1	upper	36272	ND	ND	ND	ND	ND	ND
1473M-1	upper	36348	ND	ND	ND	ND	ND	ND
1473M-1	upper	36452	ND	ND	ND	ND	ND	ND
1473M-1	upper	36549	ND	ND	ND	ND	ND	ND
1473M-1	upper	36654	ND	ND	ND	ND	ND	ND
1473M-1	upper	36725	0.61	ND	ND	ND	ND	ND
1473M-1	upper	36818	0.95	ND	ND	ND	ND	ND
1473M-1	upper	36899	5.93	2.88	ND	ND	ND	ND
1473M-1	upper	37005	1.7	0.75	ND	ND	ND	ND
1473M-1	upper	37082	ND	ND	ND	ND	ND	ND
1473M-1	upper	37179	ND	ND	ND	ND	ND	ND
1473M-1	upper	37277	ND	ND	ND	ND	ND	ND
1473M-1	upper	37354	ND	ND	ND	ND	ND	ND
1473M-1	upper	37446	ND	ND	ND	ND	ND	ND
1473M-1	upper	37634	0.99	0.64	ND	ND	ND	ND
1473M-1	upper	37720	ND	ND	ND	ND	ND	ND
1473M-1	upper	37823	ND	ND	ND	ND	ND	ND
1473M-1	upper	37908	ND	ND	ND	ND	ND	ND
1473M-1	upper	37998	ND	ND	ND	ND	ND	ND
1473M-1	upper	38096	ND	ND	ND	ND	ND	ND
1573C-10	lower	36349	ND	ND	ND	ND	ND	ND
1573C-10	lower	37082	ND	ND	ND	ND	ND	ND
1573C-14	lower	36425	ND	ND	ND	ND	ND	ND
1573C-14	lower	37158	ND	ND	ND	ND	ND	ND
1573C-14	lower	37516	ND	ND	ND	ND	ND	ND
1573C-14	lower	37873	ND	ND	ND	ND	ND	ND
1573C-17	lower	36223	ND	ND	ND	ND	ND	ND
1573C-17	lower	36605	ND	ND	ND	ND	ND	ND
1573C-17	lower	36955	ND	ND	ND	ND	ND	ND
1573C-17	lower	37307	ND	ND	ND	ND	ND	ND
1573C-17	lower	37690	ND	ND	ND	ND	ND	ND
1573C-17	lower	38054	ND	ND	ND	ND	ND	ND
1573C-20		36297	ND	ND	ND	ND	ND	ND
1573C-20		36858	ND	ND	ND	ND	ND	ND
1573C-20		37179	ND	ND	ND	ND	ND	ND
1573C-20		37937	ND	ND	ND	ND	ND	ND
1573C-5	upper	36508	ND	ND	ND	ND	ND	ND
1573C-5	upper	36888	ND	ND	ND	ND	ND	ND
1573C-5	upper	37222	ND	ND	ND	ND	ND	ND
1573C-5	upper	37600	ND	ND	ND	ND	ND	ND
1573C-5	upper	38096	ND	ND	ND	ND	ND	ND
1573C-7	upper	36180	0.64	ND	ND	ND	ND	ND
1573C-7	upper	36271	ND	ND	ND	ND	ND	ND
1573C-7	upper	36349	ND	ND	ND	ND	ND	ND
1573C-7	upper	36480	ND	ND	ND	ND	ND	ND
1573C-7	upper	36605	ND	ND	ND	ND	ND	ND
1573C-7	upper	36858	ND	ND	ND	ND	ND	ND
1573C-7	upper	37005	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1573C-7	upper	37179	ND	ND	ND	ND	ND	ND
1573C-7	upper	37354	ND	ND	ND	ND	ND	ND
1573C-7	upper	37538	ND	ND	ND	ND	ND	ND
1573C-7	upper	37721	ND	ND	ND	ND	ND	ND
1573C-7	upper	37938	ND	ND	ND	ND	ND	ND
1573C-7	upper	38096	ND	ND	ND	ND	ND	ND
1573C-8	upper	36201	ND	ND	ND	ND	ND	ND
1573C-8	upper	36584	ND	ND	ND	ND	ND	ND
1573C-8	upper	36928	ND	ND	ND	ND	ND	ND
1573C-8	upper	37307	ND	ND	ND	ND	ND	ND
1573C-8	upper	37657	ND	ND	ND	ND	ND	ND
1573C-8	upper	38027	ND	ND	ND	ND	ND	ND
1573D-2	upper	36348	ND	ND	ND	ND	ND	ND
1573E-2	lower	36425	ND	ND	ND	ND	ND	ND
1573F-4	lower	36298	ND	ND	ND	ND	ND	ND
1573F-4	lower	36654	ND	ND	ND	ND	ND	ND
1573F-4	lower	37032	ND	ND	ND	ND	ND	ND
1573G-1		36297	ND	ND	ND	ND	ND	ND
1573G-1		37035	ND	ND	ND	ND	ND	ND
1573G-1		37756	ND	ND	ND	ND	ND	ND
1573H-1	lower	36180	ND	ND	ND	ND	ND	ND
1573H-1	lower	36550	ND	ND	ND	ND	ND	ND
1573H-1	lower	36899	ND	ND	ND	ND	ND	ND
1573H-1	lower	37278	ND	ND	ND	ND	ND	ND
1573H-1	lower	37635	ND	ND	ND	ND	ND	ND
1573H-1	lower	37999	ND	ND	ND	ND	ND	ND
1573H-2	lower	36348	ND	ND	ND	ND	ND	ND
1573H-2	lower	37082	ND	ND	ND	ND	ND	ND
1573H-3	lower	36480	ND	ND	ND	ND	ND	ND
1573K-1	upper	36272	ND	ND	ND	ND	ND	ND
1573K-1	upper	36452	ND	ND	ND	ND	ND	ND
1573K-1	upper	36655	ND	ND	ND	ND	ND	ND
1573K-1	upper	36817	ND	ND	ND	ND	ND	ND
1573K-1	upper	37055	ND	ND	ND	ND	ND	ND
1573K-1	upper	37179	ND	ND	ND	ND	ND	ND
1573K-1	upper	37354	ND	ND	ND	ND	ND	ND
1573K-1	upper	37538	ND	ND	ND	ND	ND	ND
1573K-1	upper	37720	ND	ND	ND	ND	ND	ND
1573K-1	upper	37908	ND	ND	ND	ND	ND	ND
1573K-1	upper	38096	ND	ND	ND	ND	ND	ND
1573K-3	lower	36390	ND	ND	ND	ND	ND	ND
1573K-3	lower	36783	ND	ND	ND	ND	ND	ND
1573K-4	lower	36202	ND	ND	ND	ND	ND	ND
1573K-4	lower	36584	ND	ND	ND	ND	ND	ND
1573Q-1	upper	36180	ND	ND	ND	ND	ND	ND
1573Q-1	upper	36549	ND	ND	ND	ND	ND	ND
1573Q-1	upper	36899	ND	ND	ND	ND	ND	ND
1573Q-1	upper	37277	ND	ND	ND	ND	ND	ND
1573Q-1	upper	37635	ND	ND	ND	ND	ND	ND
1573Q-1	upper	37998	ND	ND	ND	ND	ND	ND
1573R-1	upper	36202	ND	ND	ND	ND	ND	ND
1573R-1	upper	36388	ND	ND	ND	ND	ND	ND
1573R-1	upper	36584	ND	ND	ND	ND	ND	ND
1573R-1	upper	36762	ND	ND	ND	ND	ND	ND

TABLE A-4
COLBERT LANDFILL DOMESTIC WELL RESULTS (1999-2004)

StationID	Aquifer	SampleDate	TCA	DCA	DCE	MC	PCE	TCE
1573R-1	upper	36928	ND	ND	ND	ND	ND	ND
1573R-1	upper	37109	ND	ND	ND	ND	ND	ND
1573R-1	upper	37306	ND	ND	ND	ND	ND	ND
1573R-1	upper	37446	ND	ND	ND	ND	ND	ND
1573R-1	upper	37658	ND	ND	ND	ND	ND	ND
1573R-1	upper	37845	ND	ND	ND	ND	ND	ND
1573R-1	upper	38027	ND	ND	ND	ND	ND	ND
1573R-2	upper	36425	ND	ND	ND	ND	ND	ND
1573R-2	upper	37158	ND	ND	ND	ND	ND	ND
1573R-2	upper	37446	ND	ND	ND	ND	ND	ND
1573R-2	upper	37873	ND	ND	ND	ND	ND	ND
3483Q-1		36641	ND	ND	ND	ND	ND	ND
3483Q-1		37005	ND	ND	ND	ND	ND	ND
3483Q-1		37354	ND	ND	ND	ND	ND	ND
3483Q-1		37755	ND	ND	ND	ND	ND	ND

ATTACHMENT

Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INFORMATION	
Site name: COLBERT LANDFILL	**Date of inspection:** SEP 23 2004
Location and Region: SPOKANE COUNTY, WA	**EPA ID:** WAD980514541
Agency, office, or company leading the five-year review: WA STATE DEPT. OF ECOLOGY / EPA	**Weather/temperature:**

Remedy Includes: (Check all that apply)

- X Landfill cover/containment
- X Access controls
- Institutional controls
- X Groundwater pump and treatment
- Surface water collection and treatment
- Other _____
- Monitored natural attenuation
- Groundwater containment
- Vertical barrier walls

Attachments: Inspection team roster attached — Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager** BILL WEDLAKE _____ _____ _____
   Name — Title — Date
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

2. **O&M staff** DEBRA GEILER SR. ENVIRONMENTAL TECH. _____
   Name — Title — Date
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; ☐Report attached _____

4. **Other interviews** (optional) ☐Report attached.

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Documents**
   - X O&M manual — X Readily available — X Up to date — N/A
   - X As-built drawings — X Readily available — X Up to date — N/A
   - X Maintenance logs — X Readily available — X Up to date — N/A

   Remarks _____

2. **Site-Specific Health and Safety Plan** — X Readily available — X Up to date — N/A
   Contingency plan/emergency response plan — X Readily available — X Up to date — N/A

   Remarks _____

3. **O&M and OSHA Training Records** — X Readily available — X Up to date — N/A

   Remarks _____

4. **Permits and Service Agreements**
   - Air discharge permit — Readily available — Up to date — N/A
   - X Effluent discharge — X Readily available — X Up to date — N/A
   - Waste disposal, POTW — Readily available — Up to date — N/A
   - Other permits _____ — Readily available — Up to date — N/A

   Remarks NO PERMITS - MEETS NPDES SUBSTANTIVE REQUIREMENTS UNDER STATE AUTHORITY

5. **Gas Generation Records** — X Readily available — X Up to date — N/A

   Remarks _____

6. **Settlement Monument Records** — X Readily available — X Up to date — N/A

   Remarks _____

7. **Groundwater Monitoring Records** — X Readily available — X Up to date — N/A

   Remarks _____

8. **Leachate Extraction Records** — Readily available — Up to date — X N/A

   Remarks _____

9. **Discharge Compliance Records**
   - X Air — X Readily available — X Up to date — N/A
   - X Water (effluent) — X Readily available — X Up to date — N/A

   Remarks _____

10.	**Daily Access/Security Logs**	X Readily available	X Up to date	N/A

Remarks DAILY ACCESS IS RECORDED INTO SECURITY SYSTEM.

IV. O&M COSTS

1. **O&M Organization**

State in-house — Contractor for State
X PRP in-house — Contractor for PRP
Federal Facility in-house — Contractor for Federal Facility
Other _____

2. **O&M Cost Records**

Readily available — X Up to date
Funding mechanism/agreement in place
Original O&M cost estimate _____ Breakdown attached

Total annual cost by year for review period if available

From 1/1/00 (Date) To 12/31/00 (Date)	$391,000 (Total cost)	Breakdown attached
From 1/1/01 (Date) To 12/31/01 (Date)	$360,000 (Total cost)	Breakdown attached
From 1/1/02 (Date) To 12/31/02 (Date)	$381,000 (Total cost)	Breakdown attached
From 1/1/03 (Date) To 12/31/03 (Date)	_____ (Total cost)	Breakdown attached
From _____ (Date) To _____ (Date)	_____ (Total cost)	Breakdown attached

3. **Unanticipated or Unusually High O&M Costs During Review Period**

Describe costs and reasons: _____

V. ACCESS AND INSTITUTIONAL CONTROLS X Applicable ☐ N/A

A. Fencing

1. **Fencing damaged** — Location shown on site map — X Gates secured — N/A

Remarks FENCING SECURE, IN GOOD CONDITION

B. Other Access Restrictions

1. **Signs and other security measures** — Location shown on site map — N/A

Remarks SIGNS & MARKERS AS APPROPRIATE

C. Institutional Controls (ICs)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented — Yes X No N/A

Site conditions imply ICs not being fully enforced — Yes X No N/A

Type of monitoring (*e.g.*, self-reporting, drive by) _____

Frequency _____

Responsible party/agency Spokane County Health District

Contact _____ _____ _____ _____

Name Title Date Phone no.

Reporting is up-to-date — Yes No X N/A

Reports are verified by the lead agency — Yes No X N/A

Specific requirements in deed or decision documents have been met — Yes No X N/A

Violations have been reported — Yes No X N/A

Other problems or suggestions: Report attached

2. **Adequacy** X ICs are adequate ICs are inadequate N/A

Remarks _____

D. General

1. **Vandalism/trespassing** Location shown on site map X No vandalism evident

Remarks _____

2. **Land use changes on site** X N/A

Remarks _____

3. **Land use changes off site** N/A

Remarks Housing development construction w/septic/drainfield systems just north of South System extraction wells.

VI. GENERAL SITE CONDITIONS

A. Roads X Applicable N/A

1. **Roads damaged** Location shown on site map X Roads adequate N/A

Remarks _____

B. Other Site Conditions

Remarks _____

VII. LANDFILL COVERS ☒Applicable ☐N/A

A. Landfill Surface

1. **Settlement** (Low spots) X Location shown on site map Settlement not evident
   Areal extent _____ Depth _____
   Remarks SMALL AREA OF DEPRESSION ON NORTHSIDE OF COVER HAS BEEN MARKED & ROUTINELY SURVEYED. PREVIOUS SEHLEMENT ON SOUTH SIDE HAS BEEN REPAIRED.

2. **Cracks** Location shown on site map X Cracking not evident
   Lengths _____ Widths _____ Depths _____
   Remarks _____

3. **Erosion** Location shown on site map X Erosion not evident
   Areal extent _____ Depth _____
   Remarks _____

4. **Holes** Location shown on site map X Holes not evident
   Areal extent _____ Depth _____
   Remarks _____

5. **Vegetative Cover** X Grass X Cover properly established No signs of stress
   Trees/Shrubs (indicate size and locations on a diagram)
   Remarks _____

6. **Alternative Cover (armored rock, concrete, etc.)** X N/A
   Remarks _____

7. **Bulges** Location shown on site map X Bulges not evident
   Areal extent _____ Height _____
   Remarks _____

8. **Wet Areas/Water Damage** [X] Wet areas/water damage not evident
   - Wet areas — Location shown on site map — Areal extent_____
   - Ponding — Location shown on site map — Areal extent_____
   - Seeps — Location shown on site map — Areal extent_____
   - Soft subgrade — Location shown on site map — Areal extent_____

   Remarks_____

9. **Slope Instability** [ ] Slides — Location shown on site map [X] No evidence of slope instability
   Areal extent_____
   Remarks_____

B. Benches Applicable [X] N/A

(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** — Location shown on site map — N/A or okay
   Remarks_____

2. **Bench Breached** [ ] Location shown on site map — N/A or okay
   Remarks_____

3. **Bench Overtopped** — Location shown on site map — N/A or okay
   Remarks_____

C. Letdown Channels Applicable [X] N/A

(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** — Location shown on site map — No evidence of settlement
   Areal extent_____ Depth_____
   Remarks_____

2. **Material Degradation** — Location shown on site map — No evidence of degradation
   Material type_____ Areal extent_____
   Remarks_____

3. **Erosion** — Location shown on site map — No evidence of erosion
   Areal extent_____ Depth_____
   Remarks_____

4. **Undercutting** Location shown on site map No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ No obstructions
Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
No evidence of excessive growth
Vegetation in channels does not obstruct flow
Location shown on site map Areal extent_____
Remarks_____

D. Cover Penetrations X Applicable N/A

1. **Gas Vents** X Active Passive
X Properly secured/locked X Functioning X Routinely sampled X Good condition
Evidence of leakage at penetration Needs Maintenance
N/A
Remarks_____

2. **Gas Monitoring Probes**
X Properly secured/locked X Functioning X Routinely sampled X Good condition
Evidence of leakage at penetration Needs Maintenance N/A
Remarks_____

3. **Monitoring Wells** (within surface area of landfill)
X Properly secured/locked X Functioning X Routinely sampled X Good condition
Evidence of leakage at penetration Needs Maintenance N/A
Remarks_____

4. **Leachate Extraction Wells**
Properly secured/locked Functioning Routinely sampled Good condition
Evidence of leakage at penetration Needs Maintenance X N/A
Remarks_____

5. **Settlement Monuments** X Located X Routinely surveyed N/A
Remarks_____

E. Gas Collection and Treatment X Applicable N/A

1. **Gas Treatment Facilities**
   Flaring Thermal destruction Collection for reuse
   Good condition Needs Maintenance
   Remarks No FLARE — "SCRUB" VOC's USING CARBON ADSORPTION

2. **Gas Collection Wells, Manifolds and Piping**
   X Good condition Needs Maintenance
   Remarks

3. **Gas Monitoring Facilities** (*e.g.*, gas monitoring of adjacent homes or buildings)
   X Good condition Needs Maintenance N/A
   Remarks

F. Cover Drainage Layer X Applicable N/A

1. **Outlet Pipes Inspected** X Functioning N/A
   Remarks SHEET FLOW

2. **Outlet Rock Inspected** X Functioning N/A
   Remarks

G. Detention/Sedimentation Ponds X Applicable N/A

1. **Siltation** Areal extent_____ Depth_____ N/A
   X Siltation not evident
   Remarks

2. **Erosion** Areal extent_____ Depth_____
   X Erosion not evident
   Remarks

3. **Outlet Works** X Functioning N/A
   Remarks

4. **Dam** Functioning X N/A
   Remarks

H. Retaining Walls Applicable X N/A

1. **Deformations** Location shown on site map Deformation not evident
   Horizontal displacement_____ Vertical displacement_____
   Rotational displacement_____
   Remarks_____

2. **Degradation** Location shown on site map Degradation not evident
   Remarks_____

I. Perimeter Ditches/Off-Site Discharge X Applicable N/A

1. **Siltation** Location shown on site map X Siltation not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Vegetative Growth** Location shown on site map N/A
   X Vegetation does not impede flow
   Areal extent_____ Type_____
   Remarks_____

3. **Erosion** Location shown on site map X Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Discharge Structure** X Functioning N/A
   Remarks_____

VIII. VERTICAL BARRIER WALLS ☐ Applicable X N/A

1. **Settlement** Location shown on site map Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Performance Monitoring** Type of monitoring_____
   Performance not monitored
   Frequency_____ Evidence of breaching
   Head differential_____
   Remarks_____

IX. GROUNDWATER/SURFACE WATER REMEDIES X Applicable ☐N/A

A. Groundwater Extraction Wells, Pumps, and Pipelines X Applicable N/A

1. **Pumps, Wellhead Plumbing, and Electrical**
X Good condition X All required wells properly operating ☐ Needs Maintenance ☐ N/A
Remarks ALL EQUIPMENT UNDERGOS ANNUAL PREVENTIVE MAINTENANCE
ANNUAL MAINTENANCE IS PERFORMED DURING MONTHS OF APRIL - OCT.

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
X Good condition Needs Maintenance
Remarks
ANNUAL PREVENTIVE MAINTENANCE IS PERFORMED ON ALL EQUIPMENT

3. **Spare Parts and Equipment**
X Readily available X Good condition Requires upgrade Needs to be provided
Remarks

B. Surface Water Collection Structures, Pumps, and Pipelines Applicable X N/A

1. **Collection Structures, Pumps, and Electrical**
Good condition Needs Maintenance
Remarks

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
Good condition Needs Maintenance
Remarks

3. **Spare Parts and Equipment**
Readily available Good condition Requires upgrade Needs to be provided
Remarks

C. Treatment System X Applicable N/A

1. **Treatment Train** (Check components that apply)
   Metals removal Oil/water separation Bioremediation
   X Air stripping Carbon adsorbers
   Filters_____
   X Additive (*e.g.*, chelation agent, flocculent) SCALE CONTROL CHEMICAL
   Others_____
   X Good condition Needs Maintenance
   X Sampling ports properly marked and functional
   X Sampling/maintenance log displayed and up to date
   X Equipment properly identified
   Quantity of groundwater treated annually APPROX 320 MILLION GALLONS
   Quantity of surface water treated annually_____
   Remarks_____

2. **Electrical Enclosures and Panels** (properly rated and functional)
   N/A X Good condition Needs Maintenance
   Remarks_____

3. **Tanks, Vaults, Storage Vessels**
   N/A X Good condition X Proper secondary containment Needs Maintenance
   Remarks_____

4. **Discharge Structure and Appurtenances**
   N/A X Good condition Needs Maintenance
   Remarks_____

5. **Treatment Building(s)**
   N/A X Good condition (esp. roof and doorways) Needs repair
   X Chemicals and equipment properly stored
   Remarks_____

6. **Monitoring Wells** (pump and treatment remedy)
   X Properly secured/locked X Functioning X Routinely sampled X Good condition
   X All required wells located Needs Maintenance N/A
   Remarks_____

D. Monitoring Data

1. Monitoring Data
   X Is routinely submitted on time X Is of acceptable quality

2. Monitoring data suggests:
   X Groundwater plume is effectively contained X Contaminant concentrations are declining

D. Monitored Natural Attenuation (NA)

1. **Monitoring Wells** (natural attenuation remedy)

Properly secured/locked | Functioning | Routinely sampled | Good condition
All required wells located | Needs Maintenance | N/A

Remarks

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

OBJECTIVES FOR THE COLBERT LANDFILL RA INCLUDE PREVENTING FURTHER SPREAD OF CONTAMINATION IN THE GROUNDWATER, REMOVAL OF CONTAMINATION, AND THE PROTECTION OF DOMESTIC WATER SUPPLY IN THE AREA. AS DATA SUGGESTS, CONTAMINATION CONCENTRATIONS ARE DECLINING AND CONTAMINATION IS BEING REMOVED. A DOMESTIC WELL MONITORING PROGRAM IS ONGOING.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

THE PROJECT IS WORKING AS DESIGNED. GROUNDWATER & SURFACE WATER MONITORING DATA CONCLUDES THE SYSTEMS ARE WORKING. SYSTEM OPERATIONS CURRENTLY IMPLEMENTED WILL CONTINUE TO DELIVER THE EFFECTIVENESS OF THE REMEDY. THERE APPEARS TO BE NO CHANGES IN CONTAMINANT CONCENTRATIONS OR ANALYTES PRESENT TO WARRANT REASSESSMENT OF EXPOSURE.

C. Early Indicators of Potential Remedy Problems

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future.

None

D. Opportunities for Optimization

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

- CURRENTLY EVALUATING MONITORING FREQUENCY/SCHEDULE FOR COMPLIANCE MONITORING WELLS.
- ANNUAL EVALUATION OF DOMESTIC MONITORING FREQUENCY IS PERFORMED.
- EVALUATE PLACING WEST SYSTEM EXTRACTION WELL CP-W1 ON STANDBY.